

2008

## Programs and Courses 2008-2010

University of Northern Iowa

*Let us know how access to this document benefits you*

Copyright ©2008 University of Northern Iowa

Follow this and additional works at: [https://scholarworks.uni.edu/uni\\_catalogs](https://scholarworks.uni.edu/uni_catalogs)



Part of the [Higher Education Commons](#)

---

### Recommended Citation

University of Northern Iowa, "Programs and Courses 2008-2010" (2008). *UNI Programs and Courses Catalogs*. 8.

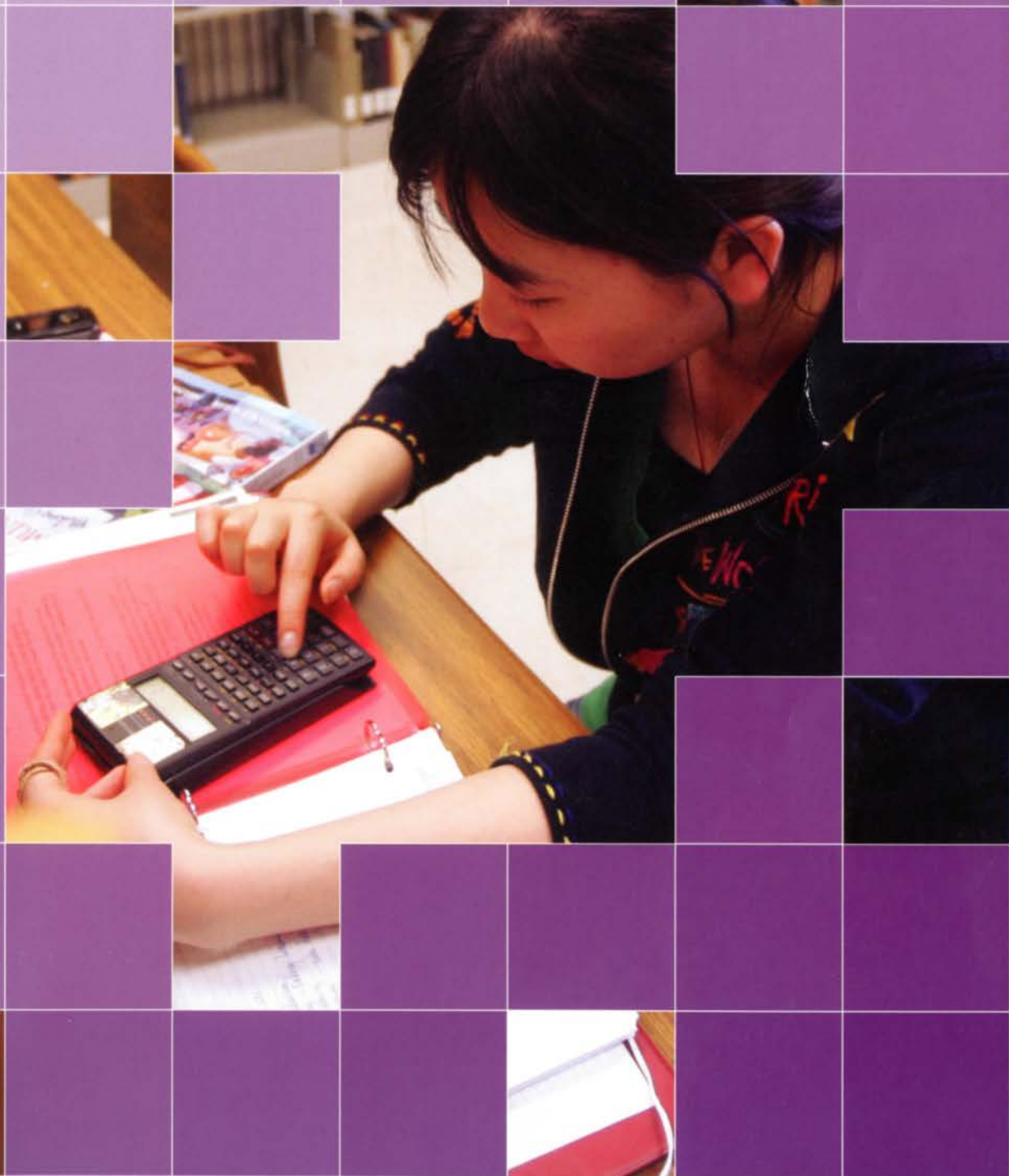
[https://scholarworks.uni.edu/uni\\_catalogs/8](https://scholarworks.uni.edu/uni_catalogs/8)

This Book is brought to you for free and open access by UNI ScholarWorks. It has been accepted for inclusion in UNI Programs and Courses Catalogs by an authorized administrator of UNI ScholarWorks. For more information, please contact [scholarworks@uni.edu](mailto:scholarworks@uni.edu).

**Offensive Materials Statement:** Materials located in UNI ScholarWorks come from a broad range of sources and time periods. Some of these materials may contain offensive stereotypes, ideas, visuals, or language.



**University of  
Northern  
Iowa**



**Programs & Courses 2008-2010**

# General Information

---

**University of Northern Iowa**



## **Programs and Courses 2008-2010**

Effective May 1, 2008

This University of Northern Iowa publication contains general information regarding fees, curricula, and related policies and procedures. Every effort has been made to make this information accurate as of the date of publication; however, all policies, procedures, fees and charges are subject to change at any time by appropriate action of the faculty, the university administration, or the Board of Regents, State of Iowa.

# Contents

<b>UNI Academic Calendar .....</b>	<b>3</b>	<b>The Fine and Performing Arts at UNI .....</b>	<b>33</b>
<b>General Information .....</b>	<b>4</b>	Facilities .....	33
The University and Its Programs .....	4	Programs .....	34
<b>Academic Structure .....</b>	<b>5</b>	Student Participation and Organizations in the Arts .....	35
College of Business Administration .....	5	Community Participation and Organizations in the Arts .....	36
College of Education .....	5	<b>Academic Regulations .....</b>	<b>37</b>
College of Humanities and Fine Arts .....	6	<b>Undergraduate Degree Requirements .....</b>	<b>46</b>
College of Natural Sciences .....	7	Undergraduate Curricula .....	47
College of Social and Behavioral Sciences .....	8	Liberal Arts Core Program .....	55
Division of Continuing Education and Special Programs .....	8	Program Certificates .....	57
Office of International Programs .....	9	Requirements for Graduation .....	58
Other Educational Opportunities .....	10	<b>Graduate Information - Graduate Admission, Academic Regulations, and Degree Requirements .....</b>	<b>61</b>
<b>Admission Requirements .....</b>	<b>12</b>	Admission .....	62
Admission of Undergraduate Students Directly from		Academic Regulations .....	63
High School .....	12	Assistantships .....	65
Admission of Undergraduate Students by Transfer from		Degree Programs and Majors .....	66
Other Colleges .....	12	<b>Undergraduate, Graduate, and Certificate Program Requirements .....</b>	<b>80</b>
Transfer Credit Practices .....	13	Undergraduate Programs, Graduate Programs, and	
High School Preparation Required for Admission .....	13	Program Certificates by Department .....	80
Admission Requirements for Graduate Students .....	14	Interdisciplinary Majors and Minors .....	155
Classification of Residents and Nonresidents .....	14	<b>Courses of Instruction .....</b>	<b>211</b>
<b>Enrollment and Registration Procedures .....</b>	<b>16</b>	Course Descriptions .....	213
Enrollment .....	16	<b>Board of Regents, State of Iowa .....</b>	<b>321</b>
Registration Procedures .....	16	<b>Administration and Academic Department Heads (President, Vice Presidents, Deans, and Academic Department Heads) .....</b>	<b>321</b>
<b>Fees and Financial Aid .....</b>	<b>17</b>	<b>Emeritus .....</b>	<b>324</b>
Student Costs and Student Fees .....	17	<b>Instructional Faculty .....</b>	<b>333</b>
Financial Aid Office .....	17	<b>Index .....</b>	<b>354</b>
Grants and Scholarships .....	19		
<b>Student Life .....</b>	<b>22</b>		
Orientation .....	22		
Housing .....	22		
Academic Advising .....	23		
Career Services .....	23		
University Health Services .....	23		
Health Clinic .....	23		
Counseling Center .....	24		
Office of Disability Services .....	24		
Wellness and Recreation Services .....	24		
Division of Vocational Rehabilitation Services .....	24		
International Services Office .....	24		
Student Activities and Honors .....	24		
<b>University Facilities and Educational Services .....</b>	<b>26</b>		
Facilities .....	26		
Educational Services .....	28		

# Academic Calendar 2008-2010

## Summer Session, 2008

May 12 Mon., instruction begins, 7:30 a.m.  
 May 26 Mon., legal holiday (Memorial Day)  
 July 4 Fri., legal holiday observed  
 Aug. 1 Fri., summer session ends, 10:00 p.m.

### (May session - 4 weeks)

May 12 Mon., instruction begins, 7:30 a.m.  
 June 6 Fri., May session ends, 10:00 p.m.

### (May/mid-June session - 6 weeks)

May 12 Mon., instruction begins, 7:30 a.m.  
 June 20 Fri., May/mid-June session ends, 10:00 p.m.

### (June session - 4 weeks)

June 9 Mon., instruction begins, 7:30 a.m.  
 July 3 Thurs., June session ends, 10:00 p.m.

### (June/July session - 8 weeks)

June 9 Mon., instruction begins, 7:30 a.m.  
 Aug. 1 Fri., June/July session ends, 10:00 p.m.

### (mid-June/July session - 6 weeks)

June 23 Mon., instruction begins, 7:30 a.m.  
 Aug. 1 Fri., mid-June/July session ends, 10:00 p.m.

### (July session - 4 weeks)

July 7 Mon., instruction begins, 7:30 a.m.  
 Aug. 1 Fri., July session ends, 10:00 p.m.

## Fall Semester, 2008

Aug. 22 Fri., registration, 9:00 a.m.-4:00 p.m.  
 Aug. 25 Mon., instruction begins, 8:00 a.m.  
 Sept. 1 Mon., legal holiday (Labor Day)  
 Oct. 17 Fri., first half semester ends, 10:00 p.m.  
 Oct. 20 Mon., second half semester begins, 8:00 a.m.  
 Nov. 21 Fri., Thanksgiving vacation begins, 10:00 p.m.  
 Dec. 1 Mon., instruction resumes, 8:00 a.m.  
 Dec. 15-19 Mon.-Fri., final examinations  
 Dec. 19 Fri., semester ends, 10:00 p.m.  
 Dec. 20 Sat., commencement

## Spring Semester, 2009

Jan. 9 Fri., registration, 9:00 a.m.-4:00 p.m.  
 Jan. 12 Mon., instruction begins, 8:00 a.m.  
 Jan. 19 Mon., university holiday (Martin Luther King's birthday observed)  
 Feb. 27 Fri., first half semester ends, 10:00 p.m.  
 Mar. 2 Mon., second half semester begins, 8:00 a.m.  
 Mar. 13 Fri., spring vacation begins, 10:00 p.m.  
 Mar. 23 Mon., instruction resumes, 8:00 a.m.  
 May 4-8 Mon.-Fri., final examinations  
 May 8 Fri., semester ends, 10:00 p.m.  
 May 9 Sat., commencement

## Summer Session, 2009

May 11 Mon., instruction begins, 7:30 a.m.  
 May 25 Mon., legal holiday (Memorial Day)  
 July 3 Fri., legal holiday observed  
 July 31 Fri., summer session ends, 10:00 p.m.

### (May session - 4 weeks)

May 11 Mon., instruction begins, 7:30 a.m.  
 June 5 Fri., May session ends, 10:00 p.m.

### (May/mid-June session - 6 weeks)

May 11 Mon., instruction begins, 7:30 a.m.  
 June 19 Fri., May/mid-June session ends, 10:00 p.m.

### (June session - 4 weeks)

June 8 Mon., instruction begins, 7:30 a.m.  
 July 2 Thurs., June session ends, 10:00 p.m.

### (June/July session - 8 weeks)

June 8 Mon., instruction begins, 7:30 a.m.  
 July 31 Fri., June/July session ends, 10:00 p.m.

### (mid-June/July session - 6 weeks)

June 22 Mon., instruction begins, 7:30 a.m.  
 July 31 Fri., mid-June/July session ends, 10:00 p.m.

### (July session - 4 weeks)

July 6 Mon., instruction begins, 7:30 a.m.  
 July 31 Fri., July session ends, 10:00 p.m.

## Fall Semester, 2009

Aug. 21 Fri., registration, 9 a.m.-4 p.m.  
 Aug. 24 Mon., instruction begins, 8:00 a.m.  
 Sept. 7 Mon., legal holiday (Labor Day)  
 Oct. 16 Fri., first half semester ends, 10:00 p.m.  
 Oct. 19 Mon., second half semester begins, 8:00 a.m.  
 Nov. 20 Fri., Thanksgiving vacation begins, 10:00 p.m.  
 Nov. 30 Mon., instruction resumes, 8:00 a.m.  
 Dec. 14-18 Mon.-Fri., final examinations  
 Dec. 18 Fri., semester ends, 10:00 p.m.  
 Dec. 19 Sat., commencement

## Spring Semester, 2010

Jan. 8 Fri., registration, 9:00 a.m.-4:00 p.m.  
 Jan. 11 Mon., instruction begins, 8:00 a.m.  
 Jan. 18 Mon., university holiday (Martin Luther King's birthday observed)  
 Feb. 26 Fri., first half semester ends, 10:00 p.m.  
 Mar. 1 Mon., second half semester begins, 8:00 a.m.  
 Mar. 12 Fri., spring vacation begins, 10:00 p.m.  
 Mar. 22 Mon., instruction resumes, 8:00 a.m.  
 May 3-7 Mon.-Fri., final examinations  
 May 7 Fri., semester ends, 10:00 p.m.  
 May 8 Sat., commencement

## Summer Session, 2010

May 10 Mon., instruction begins, 7:30 a.m.  
 May 31 Mon., legal holiday (Memorial Day)  
 July 5 Mon., legal holiday observed  
 July 30 Fri., summer session ends, 10:00 p.m.

### (May session - 4 weeks)

May 10 Mon., instruction begins, 7:30 a.m.  
 June 4 Fri., May session ends, 10:00 p.m.

### (May/mid-June session - 6 weeks)

May 10 Mon., instruction begins, 7:30 a.m.  
 June 18 Fri., May/mid-June session ends, 10:00 p.m.

### (June session - 4 weeks)

June 7 Mon., instruction begins, 7:30 a.m.  
 July 2 Fri., June session ends, 10:00 p.m.

### (June/July session - 8 weeks)

June 7 Mon., instruction begins, 7:30 a.m.  
 July 30 Fri., June/July session ends, 10:00 p.m.

### (mid-June/July session - 6 weeks)

June 21 Mon., instruction begins, 7:30 a.m.  
 July 30 Fri., mid-June/July session ends, 10:00 p.m.

### (July session - 4 weeks)

July 6 Tues., instruction begins, 7:30 a.m.  
 July 30 Fri., July session ends, 10:00 p.m.

# General Information

This catalog is published for students and other persons who want to know more about the University of Northern Iowa. Its purpose is to communicate as objectively and completely as possible what the university is and what it does. The catalog is presented in sections to give a general view of the university as well as the detailed information required for informed decision making. Further information can be obtained on the university's homepage [www.uni.edu](http://www.uni.edu).



## The University and Its Programs

### History

The university was established in 1876 by enactment of the Iowa General Assembly, and opened on September 6, 1876, as the Iowa State Normal School - A school for the special instruction and training of teachers for the common schools of the state. The university offers a broad curriculum at both the undergraduate and graduate levels. Four conventional baccalaureate degrees are offered: the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Music, and the Bachelor of Science.

Also available is the Bachelor of Liberal Studies, an external degree offered in cooperation with the University of Iowa and Iowa State University. On the graduate level, twelve degrees are offered: the Master of Accounting, the Master of Arts, the Master of Arts in Education, the Master of Business Administration, the Master of Music, the Master of Public Policy, the Master of Science, the Master of Social Work, the Professional Science Master's, the sixth-year Specialist in Education degree, the Doctor of Education degree, and the Doctor of Industrial Technology degree.

The University of Northern Iowa has grown from its 1876 original campus site of 40 acres with one building - Central Hall, which originally housed orphaned children of Civil War soldiers - until it now embraces 57 principal buildings on a campus of 910 acres, with a fulltime faculty of approximately 650 and a total enrollment of approximately 13,000. In addition to its physical growth, the university continues to support programs that reach into the wider community, including the UNI Center for Urban Education (UNI-CUE), which is located in the heart of the urban area of Waterloo, Iowa. The internationally-known *North American Review*, which was established in 1815 in Boston and is the oldest periodical in the United States, is now published under the auspices of the University of Northern Iowa.

### Location

The university is located in Cedar Falls, Iowa, which has a population of approximately 35,000, with the Cedar Falls-Waterloo greater metropolitan area having a population of more than 110,000. Together

with the University of Iowa and Iowa State University of Science and Technology, the University of Northern Iowa is governed by the Board of Regents, State of Iowa.

### Mission

Established as the Iowa State Normal School, the institution was renamed the Iowa State Teachers College in 1909 and under this title attained a national reputation and status as a leading institution in the field of teacher education. By enactment of the Iowa General Assembly on July 5, 1961, the name of the college was changed to the State College of Iowa and degree programs were added for those not planning to teach. The change to the University of Northern Iowa was effected on July 1, 1967, following enactment by the Iowa General Assembly on the recommendation of the Board of Regents, State of Iowa. Its current statement of mission was approved by the Board of Regents, State of Iowa:

The University of Northern Iowa is a comprehensive institution dedicated to providing a personalized learning environment, founded on a strong liberal arts curriculum. It is committed to being an intellectually and culturally diverse community. The University focuses both on undergraduate education, and on selected master's, doctoral and other graduate programs. It is characterized by excellence in three areas: teaching and learning; research, scholarship, and creative work; and service. Through its varied endeavors, UNI shares its expertise with, and provides service to, individuals, communities and organizations throughout the state, the nation and the world.

### Memberships and Accreditation

The University of Northern Iowa is a member of the American Association of State Colleges and Universities (AASCU), the American Association of Colleges for Teacher Education (AACTE), and the Council of Graduate Schools in the United States. The university is accredited through the doctoral degree (Doctorate of Education and Doctorate of Industrial Technology) by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools (NCA); The Higher Learning Commission, 30 North LaSalle Street, Suite 2400, Chicago, IL, 60602-2504; telephone 312-263-0456. The programs of the university are accredited by the following professional accrediting agencies: the Association to Advance Collegiate Schools of Business (AACSB - International), the Council for Accreditation of Counseling and Related Educational Programs, the National Association of Schools of Music, the National Association of Schools of Art and Design, the Council on Social Work Education, the American Speech-Language-Hearing Association, the American Association of Family and Consumer Sciences, the National Association of Industrial Technology, and the National Recreation and Park Association Council on Accreditation. Programs are also approved by the Iowa State Department of Education, the National University Extension Association, and the American Chemical Society. In addition, the University Museum is accredited by the American Association of Museums.

The B.A. in Athletic Training major is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

The Master of Social Work (M.S.W.) program is accredited by the Council on Social Work Education.

The Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA), has conferred accreditation to the following program areas in the Department of Educational Leadership, Counseling, and Postsecondary Education at the University of Northern Iowa: Mental Health Counseling (M.A.) and School Counseling (M.A.E.).

UNI is committed to the assessment of student learning for purposes

es of the ongoing improvement of curriculum, programs, and services offered by the university and for accreditation processes. Assessment of academic programs is managed through the cycle of Academic Program Review, which includes both internal and external review processes. In addition to Academic Program Review, other assessment activities and the collection of data related to student learning outcomes are managed through the resources and leadership of the Office of Academic Assessment and the Office of Institutional Research.

## Academic Structure

### College of Business Administration

[www.cba.uni.edu](http://www.cba.uni.edu)

The College of Business Administration seeks to provide a high-quality professional education that will enable its graduates to meet effectively the needs of modern society. The Vision and Mission of the College of Business Administration may be found at the Web site <http://www.cba.uni.edu/dbweb/pages/about/mission.cfm>

Our mission emphasizes rigorous instruction at both the undergraduate and graduate levels. All courses, with only a few exceptions, are taught by fulltime faculty members, many of whom have business experience in addition to holding advanced degrees. As a supplement to regular classroom instruction, students can enrich their educational experience by availing themselves to internships, cooperative work programs in industry and government, individual tutorials, research projects, and international internship and study opportunities.

The College of Business Administration houses five departments: *Accounting, Economics, Finance, Management, and Marketing*. The Bachelor of Arts (B.A.) degree is offered by all five departments. Teaching licensure covers accounting, business communication, business law, entrepreneurship, finance, general business, information technology and management/marketing. All teaching programs are offered through the Management Department. In addition to its undergraduate programs, the college offers graduate programs leading to the Master of Business Administration (M.B.A.) degree and the Master of Accounting (MAcc) degree. Finally, the College of Business Administration serves other disciplines in the university through numerous professional courses. All programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB - International).

While providing a first-class professional education is our major concern, we maintain a strong commitment to student preparation in the arts and sciences. Students are counseled to seek a broad educational experience, particularly at the undergraduate level, and to utilize the full resources of the university in their preparation for happy and productive lives.

The College of Business Administration is the academic unit responsible for providing degree programs in business and management. Degree programs offered by other colleges may not include more than 25% of the degree requirements in College of Business Administration course work, excluding Economics. In addition, non-business majors may not enroll in more than 30 hours from the College of Business Administration (920:053 and 920:054 excluded from the total) and may not complete more than one College of Business Administration minor (Economics excluded).

To graduate with a major in Accounting, Business Teaching, Finance, Economics: Business Analysis, Management, Management Information Systems, or Marketing from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major from UNI. Students must also complete at least 50% of the course work required for the degree outside the College of Business Administration.

### College of Education

[www.uni.edu/coe](http://www.uni.edu/coe)

The College of Education includes six instructional units. Programs offered in this college lead to the degrees of Bachelor of Arts (B.A.), Master of Arts (M.A.), Master of Arts in Education (M.A.E.), Master of Science (M.S.), Specialist in Education (Ed.S.), and Doctor of Education (Ed.D.).

The various units which comprise the college are described below:

*Curriculum and Instruction:* Early childhood education, elementary education, middle level education, literacy education, school library studies, and instructional technology. Graduate degree programs leading to a master's degree are offered, as well as a doctoral intensive study area in curriculum and instruction. For further information, visit the Web site [www.uni.edu/coe/ci](http://www.uni.edu/coe/ci).

*Educational Leadership, Counseling, and Postsecondary Education:* Graduate programs at the master's level in educational leadership, counseling, and postsecondary education. Graduate programs at the Ed.D. level in educational leadership. For further information, visit the Web site at [www.uni.edu/coe/elcpe](http://www.uni.edu/coe/elcpe).

*Educational Psychology and Foundations:* Educational psychology, human development, research and evaluation, school psychology, and social foundations of education. The department is responsible for courses required of all prospective teachers. The department has two graduate degree programs at the master's level and one graduate specialist degree program. For further information, visit the Web site [www.uni.edu/coe/epf](http://www.uni.edu/coe/epf).

*School of Health, Physical Education, and Leisure Services:* Graduate and undergraduate majors in athletic training; health education (teaching); health promotion; leisure, youth and human services; philanthropy and non-profit development; and physical education (teaching and non-teaching). The school also offers the liberal arts core Personal Wellness course in addition to minors and/or program certificates in coaching, dance, environmental health, global health, health education (teaching), health promotion, leisure, youth and human services, outdoor recreation, physical education (elementary teaching), school age care leadership, tourism, and youth services administration. The school operates multiple laboratory, demonstration projects, performance studios and outreach programs including: athletic training laboratory, biomechanics laboratory, biostatistics laboratory, *Camp Adventure™ Youth Services*, computer instructional laboratory, Early Childhood Motor Development Laboratory (Kindergym), exercise physiology laboratory, Global Health Corps, Institute for Youth Leaders, National Program for Playground Safety, Iowa Center on Health Disparities, Nutriactive Experience: Healthy Lifestyles for Young Children, Physical Activity and Nutrition Among Rural Youth (PANARY), Project PLAY, Program for Recreation Research and Service, Project EXPORT, Project HAL (Healthy Active Lifestyles), psychomotor behavior laboratory, rhythm and movement studio, Recycling and Reuse Technology Transfer Center, student computer center, Sustainable Tourism and Environment Program, wellness resources laboratory, World Leisure Secretariat, XL Sports Acceleration Program and the Youth Fitness and Obesity Institute. The school is endorsed by several accrediting bodies and organizing networks including American Humanics, Inc., Commission on Accreditation of Allied Health Education Systems (CAAHE), and the National Recreation and Parks Association Council on Accreditation. Information on the school may be found at the Web site [www.uni.edu/coe/hpels](http://www.uni.edu/coe/hpels).

*Special Education:* Graduate majors and undergraduate minors in Instructional Strategist I, Instructional Strategist II, Early Childhood Special Education, and Visual Impairments. Graduate programs emphasize Field Specialization, Special Education Consultant, and Career/Vocational Programming and Transition. All programs emphasize field-based experiences and applied research. For further information, visit the Web



## General Information

site at [www.uni.edu/coe/specialed](http://www.uni.edu/coe/specialed).

**Teaching:** The Department of Teaching includes two divisions - Price Laboratory School and the Office of Student Field Experiences. Price Laboratory School is an integral part of the university's teacher education program and serves three basic functions: provides a direct-experience laboratory for all undergraduate and graduate teacher education students; operates as a center for research, experimentation, and curriculum development; and provides leadership to the elementary and secondary schools of Iowa and the nation through publication, consultation, and a variety of in-service programs and activities. A comprehensive instructional program is offered for school pupils in nursery-kindergarten through grade 12, including programs for special education and talented/gifted students. The Office of Student Field Experiences is responsible for administering the student teaching component and other field experiences of UNI's undergraduate teacher education program. A statewide network of cooperating school centers offers a variety of student teaching sites in urban, suburban, and rural school systems. Out-of-state student teaching placements can be requested through the out-of-state/international center. Each center is staffed with a coordinator who is a member of the UNI faculty and who is responsible for administering the student teaching program within the center and for supervising student teachers on a regular basis. Carefully-selected district-level supervisors and teachers who possess special qualities, teaching skills, and levels of competence also provide continuous classroom supervision for the student teachers.

Since its establishment in 1876 as the Iowa State Normal School, the University of Northern Iowa has maintained its affirmed commitment to the support of excellence in teacher education. This commitment was recognized by the Iowa General Assembly in 1967 when the function of the university was redefined to include as its primary responsibility the preparation of "... teachers and other educational personnel for schools, colleges, and universities ...". It is also acknowledged by the university in organizing and defining teacher education as an all-university function.

The College of Education, however, has a particular responsibility for teacher education. The most widespread influence on teacher education is that all students seeking licensure take professional preparation in the College of Education. For undergraduate students this professional preparation consists of a required professional education core common to all teaching majors and a culminating student teaching experience in diverse settings.

The college is involved in continuing education, working closely with school and non-school personnel throughout the state on curriculum projects, surveys, and other activities, as well as sponsoring conferences and offering classes, institutes, and workshops both on and off campus. These activities illustrate the college's commitment to service, but the college also recognizes the critical importance of such involvement for ensuring the vitality and relevance of its graduate and undergraduate programs.

Department faculty within the College of Education are engaged in writing and research activities along with their classroom instruction. The Price Laboratory School represents one area in which experimental and innovative projects are in continual operation, and these projects are open for observation and participation.

## College of Humanities and Fine Arts

[www.uni.edu/chfa](http://www.uni.edu/chfa)

The College of Humanities and Fine Arts includes seven academic departments: *Art, Communication Studies, Communication Sciences and Disorders, English Language and Literature, Modern Languages, Philosophy and Religion, and Theatre*; the *School of Music*; and the two public radio stations, KUNI and KHKE, housed within Broadcasting Services.

The College of Humanities and Fine Arts offers graduate and undergraduate degree programs. Students enrolled in majors in the college can

graduate with the Bachelor of Arts (B.A.) degree in specialized content areas in each major department in the college. The Bachelor of Fine Arts (B.F.A.) and Bachelor of Music (B.M.) are also offered in Art and Music respectively. In addition, the college serves students across the campus with an extensive set of liberal arts core, elective, and service courses.

College departments provide diverse major and minor programs at the undergraduate and graduate levels in these areas: art, communication studies, journalism, electronic media, public relations, communicative disorders, speech-language pathology (graduate level), English, Teaching English to Speakers of Other Languages (TESOL), French, German, Spanish, Portuguese, Russian, music, philosophy, religion, ethics, theatre, leadership studies, and an undergraduate minor and Master of Arts (M.A.) in women's and gender studies.

Several departments in the college offer cooperative programs. For instance, the Department of English Language and Literature and the Department of Modern Languages combine in various ways comparative literature, English, modern languages, and TESOL. The School of Music has majors in Music Education and Performance, Music History, and Conducting which lead to the Master of Music (M.M.). Program certificates are available in these departments in the College of Humanities and Fine Arts: Communication Studies - Public Speaking (undergraduate) and Corporate Communication (graduate); Modern Languages - Language Studies (French, German, Hispanic and Portuguese, Russian, and Spanish), International Commerce, Spanish for Special Purposes, and Translation (French, German, Portuguese, Russian, Spanish); Music (Artist Diploma I and II); Philosophy and Religion (Youth Development in Religious Settings).

The College of Humanities and Fine Arts also offers interdisciplinary undergraduate programs in Humanities and shares responsibility for the American Studies and European Studies majors.

Additionally, the College of Humanities and Fine Arts sponsors a wide variety of programs abroad (Eastern and Western Europe, Central and South America) and co-curricular activities for university students in all majors, for talented high school students, and for the community at large. Some examples of these activities include the art scholarship competition, the music and theatre festivals, forensics competitions and others. These activities are in addition to the recitals and ensemble performances of individuals, ensembles, and symphonies in the School of Music, the productions staged by Theatre UNI and UNI Lyric Theatre, and the art exhibitions organized by the UNI Gallery of Art.

Administratively housed in the College of Humanities and Fine Arts are UNI's two separately programmed public radio stations. KUNI-FM





serves the Cedar Falls/Waterloo, Cedar Rapids, and Iowa City areas at 90.9 on the dial. KUNI can also be heard at 98.7 in Dubuque, 94.5 in the Quad Cities, 96.1 in Des Moines, and 91.5 in north central Iowa via KUNY-FM in Mason City. KUNI/KUNY broadcast quality music and public affairs features each day. KHKE-FM, at 89.5 on the dial, serves the Cedar Falls/Waterloo metro area with a jazz and classical music format. KHKE is also heard at 90.7 in Mason City, and at 1010 AM in northern Iowa and southern Minnesota, via KRNI-AM in Mason City. Students majoring in Electronic Media in the Department of Communication Studies serve as interns for the two stations.

The College of Humanities and Fine Arts prepares its graduates for lifelong learning and for a productive life in a rapidly-changing society and economic environment. Undergraduate programs in Communication Studies, English, Modern Languages, World Religions and Philosophy offer a broad range of curriculum choices to prepare students for cross-cultural understanding and life in a global economy. In all of these programs students learn life-long skills in public speaking, listening, critical thinking, reflection, decision-making, and analysis. Students in English graduate with excellent skills in writing, editing, publishing, and presenting public information while graduates in modern languages are prepared for public service, work in government, international organizations and the private sector, serving as translators and/or interpreters or working for transnational business corporations. While some of our students pursue teaching careers in the arts or the humanities, other students, in Communication Sciences and Disorders, for example, look toward careers as professional therapists. A number of our majors will become professional performers as actors, artists, or musicians. Most UNI students take major components of the university's Liberal Arts Core in the College of Humanities and Fine Arts - for instance, courses in the humanities, in literature or writing, in philosophy and world religions, in the appreciation of art, music, and theatre, in foreign languages and cultures, or in electives. For both personal and professional reasons, we believe human achievements in the liberal and fine arts are relevant and valuable studies for all the students of the university.

## College of Natural Sciences

[www.cns.uni.edu](http://www.cns.uni.edu)

The College of Natural Sciences houses seven instructional departments: *Biology, Chemistry and Biochemistry, Computer Science, Earth Science, Industrial Technology, Mathematics, and Physics.*

The mission of the College of Natural Sciences is to provide a quality education which will prepare students to live and work in an increasingly scientific and technological world. In support of this mission, the college is committed to its emphasis on quality teaching in undergraduate liberal and technical education; well-focused graduate programs, research and technology transfer; and distinguished service to our community, state, profession, and society. The college offers exemplary programs of pre-service and inservice teacher preparation in the sciences, mathematics, computer science, and industrial technology. In fulfilling this mission, the college remains committed to its historical emphasis on instructional excellence at the undergraduate and graduate levels. Such excellence is achieved by maintaining a stimulating educational environment that encourages close faculty-student interactions, scholarly research and professional service.

Majors and minors are available in all departments under both liberal arts and teaching programs leading to the Bachelor of Arts degree, with the exception of Computer Science which does not have a teaching major. The departments of Biology, Chemistry and Biochemistry, Computer Science, Earth Science, Industrial Technology, and Physics have majors leading to the Bachelor of Science degree. In addition, students may major in science to prepare for teaching all the sciences at the secondary level. This is an interdepartmental major and is offered under the general

jurisdiction and supervision of the Dean of the College.

Qualified students may pursue a dual degree program leading to a B.S. Applied Physics from the University of Northern Iowa and a B.S. Engineering degree from the University of Iowa or Iowa State University. Students who intend to study engineering may complete the two-year Pre-Engineering program at UNI before transferring to an engineering school. For details of this option, please refer to the Physics section of this catalog.

Since science education does involve the cooperation of a number of departments, a science education faculty functions in providing and promoting this education. The science education faculty is comprised of individuals from various departments. A chairperson coordinates courses and programs and signs approvals.

At the graduate level, the college offers Master of Arts degree programs in biology, chemistry, mathematics, and science education. The college also offers Master of Science degree programs in biology, chemistry, computer science, environmental science, environmental technology, environmental health, and technology. The major in biology is tailored to fit student interests and aspirations in biology and is designed for students seeking an extensive research experience; the major in chemistry is designed for students seeking an extensive research experience in a friendly environment featuring regular interaction with their faculty mentors - graduates of the program are well prepared for technical positions in industrial or government laboratories or for continued study in doctoral programs in chemistry; the major in computer science is designed to foster preparation for applied professional careers in computing sciences; the interdisciplinary programs in environmental science, environmental technology, and environmental health are designed for students with a discipline-based bachelor's degree in one of the natural sciences, technology, or engineering and prepares students for positions with environmental consulting firms, government agencies, environmental departments within large companies, and companies specializing in environmental technologies. The major in technology offers technical emphases in industrial management, construction management, electrical engineering technology, graphic communication, manufacturing materials, manufacturing technology, and technology education and training. The M.S. degrees in biology, chemistry, environmental science, environmental technology, environmental health, and technology are also offered in a B.A./M.S. format, in which students begin work on the master's degree while still completing the undergraduate degree. The college also offers the Professional Science Master's degree programs in biotechnology, ecosystem management, applied chemistry and biochemistry, industrial mathematics, and applied physics. The P.S.M. degree combines scientific or technical training with abbreviated business training and interdisciplinary cohort building experiences. The degree of Doctor of Industrial Technology is offered by the college and is designed to develop scholars in the fields of industry and education. Program focus is on the technological systems used in industry and the potential and limitations of possible future developments in technological systems and their utilization in industry.

The career opportunities for graduates in the College of Natural Sciences are numerous and diverse. Most departments offer programs for prospective teachers in elementary and secondary schools. Departmental offices are excellent sources of information about other careers.

The College of Natural Sciences is involved in a number of interdepartmental and intercollegiate projects. CNS scholarships are awarded to high school seniors in the areas of biology, chemistry, computer science, earth science, industrial technology, mathematics, and science.

### College of Social and Behavioral Sciences

[www.uni.edu/csbs](http://www.uni.edu/csbs)

The College of Social and Behavioral Sciences houses seven instructional departments: *Design, Textiles, Gerontology, and Family Studies; Geography; History; Political Science; Psychology; Social Work; and Sociology, Anthropology, and Criminology*. All programs have as their foundation the understanding of individuals, families, groups, and societies in their social, historical, and political relationships.

The college is the home of several professional programs as well as significant segments of the university's course offerings in the liberal arts. The college is committed to the principle that all UNI students, including those in career-oriented programs, should receive the benefits of a broad, liberal education.

The Bachelor of Arts degree is awarded for studies in the liberal arts. The college also cooperates in intercollegiate/interdisciplinary programs leading to a major or minor in Asian Studies, European Studies, and Women's and Gender Studies. Certificate programs are offered in cartography; geographic information systems; public history; conflict resolution; skills in social research; industrial and organizational psychology; criminology; social identities, inequalities, and intersectionalities; substance abuse counseling; state and local government; and international peace and security.

The college also participates in the preparation of teachers and has programs which lead to a Bachelor of Arts-Teaching degree, the requisite degree for licensure in a discipline as a secondary school teacher. An interdisciplinary program in Social Science also leads to a teaching degree.

Graduate education is an important component of the mission and responsibilities of the college. The Master of Arts (M.A.) degree is offered in Geography, History, Psychology, Criminology, Sociology, and Women's and Gender Studies. The Master of Public Policy (M.P.P.) and the Master of Social Work (M.S.W.) are also offered.

The primary emphasis of the university and the College of Social and Behavioral Sciences is providing high-quality, diverse educational experiences. In addition to regular classroom activities, conducted in state-of-the-art classrooms, students receive individualized instruction through field experiences, internship opportunities, individual study projects, and experiential learning. Students have many opportunities to engage in research and teaching activities with faculty at both the undergraduate and graduate level. The college encourages students to participate in off-campus programs such as National Student Exchange and Study Abroad programs and provides several summer study abroad opportunities supervised by CSBS faculty.

Career opportunities for graduates exist in a broad range of positions in education, public and social service, commerce, and industry. Students interested in detailed information on careers may contact departmental offices or the university's Career Services.

For additional information about the College of Social and Behavioral Sciences, contact the Dean's office at 319-273-2221 or any of the departmental offices. Information can also be obtained on the Web site at [www.uni.edu/csbs](http://www.uni.edu/csbs).

### Division of Continuing Education and Special Programs

[www.uni.edu/continuinged](http://www.uni.edu/continuinged)

The University of Northern Iowa has had an organized extension program since 1913. As an integral part of its total responsibility to the state, the university has a legislative charge to provide educational opportunities for Iowa residents who cannot attend courses on-campus. The division works cooperatively with the UNI staff in providing services to public schools, business and industry, and other community and professional groups through a variety of programs. Included in Continuing

Education are distance education courses, off-campus credit courses, and workshops.

Continuing Education works with UNI academic departments in providing general Continuing Education Units (CEUs). CEUs are the nationally recognized unit for recording participation in non credit continuing education courses.

For information about off-campus credit courses, or establishment of such courses, call, e-mail, or write the Office of Continuing Education and Special Programs, University of Northern Iowa, Cedar Falls, IA 50614-0223 or call 319-273-2122 or 1-800-772-1746.

### Credit Programs

**Guided Independent Study:** For those who find it inconvenient to attend classes on campus, opportunities to learn and earn university credit are available through the Guided Independent Study program. Over 70 courses are available via this method of delivery. Most are Web-based, some are print-based, and some are available via both mediums. Guided Independent Study courses do not follow the regular semester schedule; students can enroll at any time, work at their own pace, and have up to twelve months to complete the course. A booklet including the list of the courses and all of the program details is available by contacting the Continuing Education Credit Office located at the corner of Hudson Road and 27th Street, 319-273-2122 or 1-800-772-1746, or view the information at [www.uni.edu/continuinged/gis](http://www.uni.edu/continuinged/gis).

**Off-Campus Courses and Degree Programs:** Each semester UNI offers a wide variety of courses, workshops, degree programs, and certification programs in different communities throughout Iowa using on-site delivery, the Iowa Communication Network (ICN) and semester-based online/World-Wide-Web-based courses. A majority of the courses and programs are for graduate students working in K-12 settings who are seeking advanced degrees, an additional endorsement/certification, or recertification hours. Courses and programs are also offered to business and industry employees who have specific educational needs. Those interested in off-campus courses and programs should contact the Continuing Education Credit Office at the address listed above.

### Individual Studies Program

[www.uni.edu/continuinged/is](http://www.uni.edu/continuinged/is)

The Individual Studies Program is under the auspices of University Continuing Education and Special Programs. The following program options and course offerings are available through Individual Studies:

National Student Exchange Program

Exploratory Seminar: Self-Forming

Interdisciplinary Readings

Undergraduate Thesis

Individual Study Project

Individual Studies major (see page 157)

General Studies major (see page 157)

General Studies for Registered Nurses (see page 47)

**National Student Exchange Program:** The University of Northern Iowa is affiliated with the National Student Exchange (NSE), a consortium of state colleges and universities throughout the country that arranges for students to study on various campuses as visiting students. The purpose of the exchange is to enable students to get better acquainted with different social and educational patterns in other areas of the United States while paying UNI tuition. NSE encourages students to experience new life and learning styles, learn more about themselves and others, and broaden their educational backgrounds through specialized courses or unique programs which may not be available at UNI. Students may exchange to one of 188+ colleges and universities such as California State University (Fresno), University of New Mexico, University of Idaho,

University of Georgia, University of South Carolina, and University of Maine (Orono).

Students make exchange preparations through the Individual Studies Office. Sophomores with at least a 2.50 grade point average may take part in the program for either a semester or an entire year. Summer exchanges are also possible with some institutions. Financial aid and scholarship recipients should not be adversely affected by participation in the NSE program.

More information about the National Student Exchange is available at the Individual Studies Office, 2637 Hudson Road, Cedar Falls, IA 50614-0285. Students initiate applications there under the advisement of the NSE Coordinator. Applications must be submitted in the spring semester prior to the academic year in which an exchange is planned.

## Individual Studies Courses:

**Self-Forming Seminar (000:192, section 1).** This course is a type of group independent study which allows students with a common interest to organize a time for study together with each member of the team often working on part of a larger problem or project. A faculty consultant must agree to evaluate the completed project at the end of the term.

**Interdisciplinary Readings (000:196).** This course allows the student to develop a program of readings on a topic not dealt with in the university's regular course offerings. The reading list and the number of credit hours must be approved by a faculty member specifically chosen to supervise and aid the student in her/his work.

**Undergraduate Thesis (000:197).** The writing of a thesis is required of all Individual Studies majors. This six-credit project may take the form of a research paper, creative work, or application of knowledge gained from an internship or work-related experience. The thesis topic must be approved by the faculty advisor. Copies of Undergraduate Thesis Guidelines are available in the Individual Studies Office.

**Individual Study Project (000:198).** This course is an opportunity for research, creative work, or experience-oriented study in areas not usually covered by the university curriculum. The form of the project and the number of credit hours assigned to the project (usually 1-3) are worked out between the student and the faculty consultant selected.

**Registration Procedures.** All Individual Studies courses are listed in the schedule book and may be found by referring to the first page of course offerings. In addition to listing the Individual Studies course on the registration form, **the filing of a prospectus is required.** The prospectus is a written contract between student and faculty consultant which states what will be done, how it will be done, and what constitutes a completed project. The prospectus must be signed by the consultant and turned in during the second week of classes. Copies of Guidelines for Independent Study are available in the Individual Studies Office. This handout answers many questions about the policies and procedures to be followed by students enrolled in Individual Studies courses.

## Culture and Intensive English Program

[www.uni.edu/ciep](http://www.uni.edu/ciep)

The Culture and Intensive English Program (CIEP) provides a course of instruction for non-native speakers of English that emphasizes a practical command of spoken and written English in preparation for academic studies. CIEP offers eight-week sessions beginning in August, October, January, March, and June. Each session is preceded by an orientation session for new students. For exact dates of upcoming sessions, please contact the CIEP office.

Each session provides 20 classroom hours per week of English language study and cultural orientation. Students are taught by experienced instructors in small classes. The unique needs of each student are addressed through careful testing and placement according to ability.



Courses offered within the program include Listening Comprehension, Speaking/Pronunciation, Reading Comprehension/Vocabulary Expansion, Writing/Grammar, and TOEFL Preparation (optional). This progressive approach to language study allows students to develop and retain skills more quickly. Students successfully completing the program are awarded a Certification of Completion.

For further information on any of these programs, contact the Culture and Intensive English Program, 72 Baker Hall, University of Northern Iowa, Cedar Falls, IA 50614-0511, call 319- 273-2182 or visit our Web site.

## Office of International Programs

[www.uni.edu/studyabroad/international/](http://www.uni.edu/studyabroad/international/)

The **Office of International Programs** at the University of Northern Iowa provides service and leadership in international education to UNI students, faculty and staff who wish to research or study abroad; offers services and support to international scholars and students who are guests on our campus; and serves as a resource on international education to the university, the community, and the state. These services are administered by this office through International Student and Scholar Exchange and Study Abroad.

**International Student and Scholar Exchange.** UNI presently has exchange agreements with over 20 universities located in Europe, Asia, and South America.

**Incoming Exchange Students.** A designated number of students from our exchange universities study at UNI for a semester or a year. Students may also enroll in degree-granting programs.

**International Scholar Exchange.** In conjunction with the formal exchange agreements, the Office of International Programs acts as host to exchange scholars from these partner universities. International scholars teach and conduct research on the UNI campus for a semester or a year. In addition, UNI faculty have the opportunity to teach and conduct research worldwide on the campuses of these universities.

These student and scholar exchanges contribute to the cultural diversity of the UNI campus, strengthen international collaborative teaching and research efforts, and increase an exchange of information across all disciplines on a global level.

For further information on any of these programs, contact the Office of International Programs, 59 Baker Hall, University of Northern Iowa, Cedar Falls, IA 50614-0520 or call 319-273-6807.

## Study Abroad

[www.uni.edu/studyabroad](http://www.uni.edu/studyabroad)

Students may earn UNI credits while studying abroad and most programs can be designed to accommodate any academic course of study. The **Study Abroad Center** assists students with the transfer of credits from the foreign university to UNI, with passport and visa ques-

## General Information

tions, and with any other concerns that may arise during the application process. Competitive scholarships are available and financial aid may also apply toward expenses for exchange programs.

Application materials, acceptance criteria, cost, program dates, and deadlines vary by program and are available from the Study Abroad Center and on the Web site [www.uni.edu/studyabroad](http://www.uni.edu/studyabroad).

**UNI Student Exchange Program.** UNI undergraduate and graduate students may arrange to spend a semester or a year studying abroad at one of our official exchange universities. Each university provides a unique program. Some of these universities offer instruction in English and some instruct in the local language. Some universities provide a full curricular offering and others are more limited in the courses students may take.

**Iowa Regents Program.** UNI is in partnership with the Iowa Regents Institutions to offer study abroad opportunities at four universities in Europe and one university in Australia. Similar to the exchange universities, some programs are based in language study, while others offer a broad selection of instruction.

For further information on any of these programs, contact the Study Abroad Center, 59 Baker Hall, University of Northern Iowa, Cedar Falls, IA 50614-0520 or call 319-273-7078.

## Other International Opportunities

The International Student Teaching program is administered by the Office of Student Field Experiences, Department of Teaching, in the College of Education. Students enrolled in teaching majors may apply to complete their student teaching in fully-accredited international or American schools abroad. The language of instruction is English and knowledge of a foreign language is not required. Students may apply for an international placement at the time of general application for student teaching. In some situations an eight-week student teaching assignment in Iowa is necessary to fulfill state licensure standards. Financial aid is available to qualified students. For further information call the Office of Student Field Experiences 319- 273-2806.

The **University of Northern Iowa Austrian Semester** is an exchange program of one faculty member and University of Northern Iowa students with a faculty person and students from the University of Klagenfurt, Austria. Each university sends its exchange group alternate semesters. UNI students will find a number of courses in various disciplines offered in English and/or German for a full semester of credit. Open to liberal arts and sciences, business, and education students.

The **Summer Institute in France** (for teachers of French) is a five-week program held in Angers, France. The institute program provides for six semester hours of credit and is designed for teachers who (1) need intensive training in understanding and speaking French, and (2) would like to live among the French people and make personal contacts with French families in a French community. Participants will live with French families. For information, contact Dr. Anne Lair, [anne.lair@uni.edu](mailto:anne.lair@uni.edu), Department of Modern Languages, University of Northern Iowa, Cedar Falls, IA 50614-0504, or visit our homepage at [www.uni.edu/modlangs](http://www.uni.edu/modlangs).

The **UNI System of Summer Institutes for Spanish Teachers (UNISIST)**, though primarily designed for teachers of Spanish, encourages non-teaching graduate students to participate. This program offers the Master of Arts in Spanish with an emphasis in Language and Literature. Each summer the following institutes are available: UNISIST in Spain (Santiago de Compostela), UNISIST in Mexico (Querétaro, northwest of Mexico City). These programs take place from mid-June through early August. Each has two sessions and participants may attend either or both. Students can earn up to six semester hours for one session or up to 10 semester hours for both. Housing is with local host families. UNISIST in Cedar Falls is held in June and/or July. The number of credit hours and topics vary from summer to summer. For further information, visit our

homepage at [www.uni.edu/modlangs](http://www.uni.edu/modlangs).

The **Regents' Program in France** is a seven-week program sponsored jointly by the three Iowa Regents' Universities. Students will spend seven weeks in Lyon, France, where they will attend courses taught by professors from the universities in Lyon. While in Lyon, students will live with French families. The program is designed primarily for undergraduates, includes weekly excursions in the Lyon area and offers up to twelve semester hours of credit. No scholarships are available. For further information, visit our homepage at [www.uni.edu/modlangs](http://www.uni.edu/modlangs) or contact [anne.lair@uni.edu](mailto:anne.lair@uni.edu).

The **Iowa Hispanic Institute** is a six-week program sponsored jointly by the University of Iowa and the University of Northern Iowa in cooperation with the University of Valladolid. The program is designed for undergraduates. Included are a week of independent travel and study at the University of Valladolid with excursions to neighboring cities. Students live with Spanish families while in Valladolid. For further information, visit our homepage at [www.uni.edu/modlangs](http://www.uni.edu/modlangs).

**Social and Behavioral Sciences Study Abroad** opportunities are sponsored by academic units within the College of Social and Behavioral Sciences. Past and planned study tours include summer, semester-length and semester-interim programs in Europe, South America, and the Far East. Programs are conducted in cooperation with foreign universities, institutes, and business firms.

The **UNI Semester in Spain (UNISIS)** is held in cooperation with the Universidad de Oviedo (UO) in Asturias in northern Spain. The program is held in spring and fall and offers 12-18 credits. UNISIS is designed especially for undergraduate students who have had a minimum of two years of university-level Spanish or the equivalent. Students live with local families. For further information, visit our homepage [www.uni.edu/modlangs](http://www.uni.edu/modlangs).

## Other Educational Opportunities

**Army Reserve Officers' Training Corps (ROTC) Program.** Army ROTC offers scholarship opportunities during college, but the real benefits begin when you graduate and are commissioned as a Second Lieutenant. ROTC opens up opportunities for positions of responsibility while teaching you valuable leadership and management skills impressive to the top employers in business and industry. ROTC also helps you grow individually, improve self-confidence, discover your capabilities, and perform to your full potential. For further information see [www.uni.edu/rotc](http://www.uni.edu/rotc).

**Community College Partnerships.** The A.A. degree from all Iowa community colleges fulfills the majority of the Liberal Arts requirements at UNI. In addition, other partnerships, also known as articulation agreements, have been developed between UNI and all Iowa community colleges for some UNI baccalaureate degree programs. These agreements show specific courses that need to be taken at each school to complete a program. If available, an articulation agreement typically results in the quickest route to graduation for a transfer student.

These partnerships are often known as 2+2 programs, although the time to complete a degree may take more than four years depending on individual circumstances. Contact UNI Office of Admissions to find out if an agreement is available in a specific area of interest.

In certain instances, the UNI portion of a 2+2 program is offered at a community college. For example, several B.A. degree programs are offered on the Des Moines Area Community College campus in Carroll, Iowa for students who are place bound or career changing. These include B.A. degrees in elementary education teaching, early childhood education endorsement, and technology management/general business.

When offered on-site, the second two years are taught by UNI faculty through a mix of delivery systems including onsite classes, classes over the Iowa Communication Network, or Web-based course work. All

2+2 programs offer the same classes as programs offered on the UNI campus.

For more information contact the UNI Office of Admissions, Cedar Falls, IA; phone 319-273-2281.

**Iowa Lakeside Laboratory.** Iowa Lakeside Laboratory is a field station run cooperatively by the University of Northern Iowa, the University of Iowa, Iowa State University, and Drake University through the Board of Regents, State of Iowa.

The laboratory was established in 1909 for the conservation and study of the rich flora and fauna of northwest Iowa, especially those of the Iowa Great Lakes region with its numerous lakes, wetlands, and prairies. Its campus is located on approximately 140 acres of restored prairie, wetland, and gallery forest along the west shore of West Okoboji Lake. Lakeside's mission is to provide undergraduate and graduate students an opportunity to get hands-on experience working with a variety of natural and human environments through its field-oriented summer courses and to provide research facilities and support for graduate students and faculty working on research projects in northwestern Iowa.

Each summer, Iowa Lakeside Laboratory offers students a unique educational experience: small, full-immersion, field-oriented courses in the natural sciences (archaeology, art, biology, ecology, environmental science, hydrology, evolution, geology, soils, taxonomy). All courses meet all day from Monday through Friday. The majority of courses run for either 3 or 4 weeks. Enrollments in most courses are limited to 8-10 students. Courses are taught at the undergraduate (sophomore and junior) and the senior/graduate level. Students obtain one credit for each week (40 hours) in class. One- and two-week courses are also available, including courses designed especially for teachers. Weather permitting, students normally spend at least part of each day doing field work, either as part of their class work or working on individual or group projects. Because there are courses offered only alternate summers, the Iowa Lakeside Laboratory Web site or the University of Northern Iowa Summer Session Schedule of Classes should be consulted for the list of courses being offered in a given summer session. The Iowa Lakeside Laboratory Web site also contains additional information about the laboratory and about each course being offered.

Research projects by undergraduates, graduate students, and faculty can be done either on the campus or at many nearby natural areas. Undergraduate and graduate students are strongly encouraged to do independent projects at Lakeside, and graduate students are welcome to use it as a base for their thesis and dissertation research. Laboratory space and other facilities are available for long-term or short-term research projects.

Teaching and research facilities include eight laboratory buildings, a library, and a lecture hall. Living accommodations include cottages, and motel-style units. All students are encouraged to stay at Lakeside while they are taking courses to take full advantage of its educational, professional, and social life.

**Financial Aid.** Iowa Lakeside Laboratory Scholarships are available to both undergraduate and graduate students. All scholarships cover room and board. Information about how to apply for Iowa Lakeside Laboratory Scholarships may be found on the Iowa Lakeside Laboratory Web site. Students should also consult the Student Financial Aid Office for other scholarships, work study, and loan programs for which they are eligible.

**Registration.** Students can only enroll in Iowa Lakeside Laboratory courses by submitting an Iowa Lakeside Laboratory Registration and Scholarship Form and Housing Form to the Iowa Lakeside Laboratory Administrative Office. These forms are found on the Iowa Lakeside Laboratory Web site ([www.continuetolearn.uiowa.edu/lakesidelab](http://www.continuetolearn.uiowa.edu/lakesidelab)). Further information may be obtained from:

Iowa Lakeside Laboratory Administrative Office  
250 Continuing Education Facility  
The University of Iowa  
Iowa City, Iowa 52242-0907  
Phone: 319-353-2806 or 888-IOWAEDU (469-2338)  
Fax: 319-335-2740

Email: [iowalakesidelab@www.continuetolearn.uiowa.edu](mailto:iowalakesidelab@www.continuetolearn.uiowa.edu)

Early registration is advisable. Because enrollment in Lakeside courses is limited, students should register before May 1 for the following summer session. Housing is very limited and students must apply for housing or indicate that they plan to live off campus at the time of registration.

The **Iowa Space Grant Consortium** is an organization sponsored by the National Aeronautics and Space Administration (NASA) and comprised of UNI, the other Iowa Regents' universities, and Drake University. The consortium is committed to establishing a national network of universities interested in space-related fields; encouraging cooperation among industry, governments, and universities in technical career programs; organizing educational programs, and research involving scientists from different areas; and recruiting and training professionals - especially women and minorities - for careers in aerospace technology and related fields, thereby promoting a strong math and science education base from kindergarten through college. Through a program of scholarships and fellowships, the consortium provides undergraduate and graduate students with opportunities to pursue interdisciplinary research in space-related fields. For further information visit [www.ia.spacegrant.org](http://www.ia.spacegrant.org).

**Regents' Universities Student Exchange Program.** University of Northern Iowa students may take courses at either of the other two Regents' Universities (Iowa State University or University of Iowa) for UNI resident credit. Students in good standing at any of the three Regents' Universities may attend another Regents' university for a maximum of two semesters. Approval for participation and credit in the exchange program must be obtained well in advance since the department head must approve the acceptance of such credits if these are to apply to the major, and to insure adequate time for processing of the application. Detailed information and application forms for the exchange program are available from the Office of the Registrar, UNI.

**Evening and Saturday Classes.** A variety of university courses are scheduled for evening hours and occasionally for Saturday morning, and include courses for both undergraduate and graduate students.

Students who plan to enroll for Saturday and/or evening classes ONLY may register by mail. Mail-in forms are available in the Office of the Registrar upon request. Schedules of classes are generally available in April for the fall semester and in November for the spring semester. Specific instructions for registration by mail are contained in the schedule and on the mail-in registration form.

Specific information for each semester's registration is available at the Office of the Registrar or on the Web site [www.uni.edu/regist](http://www.uni.edu/regist)

**Washington Center Internships and Seminars.** The University of Northern Iowa is affiliated with The Washington Center, a nonprofit educational agency, which offers internships and seminar programs for graduate and undergraduate students in all majors. Any student may participate in two- or three-week seminars addressing topics such as leadership, the law and society, and domestic or foreign policy. Juniors, seniors, and recent graduates may go to Washington for a one-semester internship. Academic credit from UNI may be earned for the internships and seminars. Information on these programs is available from the Director of Leadership Studies in Room 125, East Bartlett Hall.

# Admission Requirements

## Admission Requirements

[www.uni.edu/admissions/freshmen/requirements.html](http://www.uni.edu/admissions/freshmen/requirements.html)

Admission of Undergraduate Students Directly from High School  
Applicants must submit a formal application for admission, together with a \$40 application fee (\$50 for international students), and have their secondary school provide an official transcript of their academic record, including credits and grades, rank in class, and certification of graduation. Applicants must also submit scores from the American College Test (ACT) or the Scholastic Aptitude Test (SAT), or the equivalent. The Test of English as a Foreign Language (TOEFL) is required of international students whose first language is not English. For undergraduate international students the minimum score for full admission is 550 on the paper based TOEFL. Students with scores below this can qualify for conditional admission. Applicants may be required to submit additional information or data to support their applications.

1. **\*Graduates of approved high schools** who have the subject matter background as required and who rank in the upper one-half of their graduating class will be admitted. Applicants who are not in the upper one-half of their graduating class may, after a review of their academic and test records, and at the discretion of the admissions officers:
  - A. Be admitted unconditionally;
  - B. Be admitted conditionally; or
  - C. Be denied admission.
2. **Applicants who are graduates of nonapproved high schools** will be considered for admission in a manner similar to applicants from approved high schools, but additional emphasis will be given to scores obtained on standardized examinations.
3. **Applicants who are not high school graduates**, but whose classes have graduated, may be considered for admission. They will be required to submit all academic data to the extent that it exists and achieve scores on standardized examinations, such as the GED, which will demonstrate that they are adequately prepared for academic study.
4. **Students with superior academic records** may be admitted, on an individual basis, for part-time university study while enrolled in high school or during the summers prior to high school graduation.
5. In rare situations, **exceptional students** may be admitted as full-time or part-time students before completing high school. Early admission is provided to serve persons whose academic achievement and personal and intellectual maturity clearly suggest readiness for collegiate-level study. The university will specify requirements and conditions for early admission.

**\*Admission of undergraduate students directly from high school beginning Fall 2009 and beyond will be based on the Regent Admission Index (RAI) equation described below. In addition, applicants must meet the minimum high school course requirements.**

$$\begin{aligned} & (2 \times \text{ACT composite score}) \\ + & (1 \times \text{percentile high school rank}) \\ + & (20 \times \text{high school GPA}) \\ + & (5 \times \text{number of high school core courses}) \end{aligned}$$

### Regent Admission Index Score

**Note:** For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents, 99% is the top value for high school rank, 4.00 is the top value for GPA, and the number of high school core courses completed is expressed in terms of years or fractions of years (e.g., one semester equals 0.5 year). Applicants who do not possess all required factors will be evaluated on an individual basis by each Regent university.

Applicants from Iowa high schools who achieve at least a 245 RAI score and who meet the minimum number of high school courses

required will qualify for automatic admission. Applicants who achieve less than a 245 RAI score may also be admitted; however, the university will review these applications on an individual basis. Applications from approved high schools in other states may be held to higher academic standards, but must meet at least the same requirements as graduates of Iowa high schools.

The Regent universities recognize that the traditional measures of academic performance do not adequately describe some students potential for success. Therefore, the Regent universities strongly encourage all interested students to apply for admission. Applicants who feel their academic record is not an accurate reflection of their potential for success are encouraged to provide supplemental information explaining their circumstances in addition to the application, academic transcripts, and test scores.

## Admission of Undergraduate Students by Transfer from Other Colleges

[www.uni.edu/admissions/transfer/requirements.html](http://www.uni.edu/admissions/transfer/requirements.html)

Applicants must submit an application form for admission, together with a \$40 application fee (\$50 for international students), and request that each college they have attended send an official transcript of record to Office of Admissions. Failure to provide transcripts from all colleges or universities attended may result in denial of the application or dismissal from the university. If less than 24 semester hours of graded transferable college credit will be completed prior to entry at Northern Iowa, applicants should also request that their official high school transcript and ACT or SAT scores be sent to the Office of Admissions. Other transfer applicants may be asked to provide high school academic information. The Test of English as a Foreign Language (TOEFL) is required of international students whose first language is not English. For undergraduate international students the minimum score for full admission is 550 on the paper based TOEFL. Students with scores below this can qualify for conditional admission. International students transferring from U.S. institutions can have the TOEFL waived if they meet one of the following (A or B):



- A. Complete one semester of college level English composition from a regionally accredited U.S. college or university with a minimum grade of B.
  - B. Complete 30 or more semester hours of transferable credit with required grade point average from a regionally accredited U.S. college or university.
1. **Transfer students** are defined as those with twenty-four (24) or more semester hours of transferable college credit. Transfer students must have or exceed the following combination of grade point and total graded transferable semester hours for admission to UNI.
 

24-41 hours	2.50 GPA
42-59 hours	2.25 GPA
60 or more hours	2.00 GPA

Transfer applicants who have not maintained the level of academic performance given above may, after a review of their academic and test records, and at the discretion of the admissions officers:

    - A. Be admitted unconditionally;
    - B. Be admitted conditionally; or
    - C. Be denied admission.
  2. **Admission of students with fewer than twenty-four semester hours of transferable college credit** will be based on high school academic and standardized test records in addition to review of the college record.
  3. **Transfer applicants under disciplinary suspension** will not be considered for admission until information concerning the reason for the suspension has been received from the college assigning the suspension. Applicants granted admission under these circumstances will be admitted on probation.
  4. **Transfer applicants of colleges and universities not regionally accredited** will be considered for admission on an individual basis taking into account all available academic information.

Deadline for admission is the first day of class for any given academic term. Exceptions must be approved by the Director of Admissions.

## Transfer Credit Practices

The University of Northern Iowa endorses the Joint Statement on Transfer and Award of Academic Credit approved by the American Council on Education (ACE) and the American Association of Collegiate Registrars and Admission Officers (AACRAO). The current issue of Transfer Credit Practices of Selected Educational Institutions, published by the American Association of Collegiate Registrars and Admissions Officers, and publications of the American Council on Education are examples of references used by the universities in determining transfer credit. The acceptance and use of transfer credit are subject to limitations in accordance with existing educational policies of the University of Northern Iowa.

1. **Students from regionally accredited colleges and universities.**  
Credit earned at regionally accredited colleges and universities is acceptable for transfer except that credit in courses determined by the university to be of a remedial or career, and technical nature, or credit in courses or programs in which the institution granting the credit is not directly involved, may not be accepted, or may be accepted to a limited extent.  
No more than 65 semester hours of credit earned at two-year colleges can be applied to a bachelor's degree from the University of Northern Iowa.
2. **Students from colleges and universities which have candidate status.** Credit earned at colleges and universities which have become candidates for accreditation by a regional association is acceptable for transfer in a manner similar to that from regionally accredited colleges and universities if the credit is applicable to the bachelor's

degree at the University of Northern Iowa.

Credit earned at the junior and senior classification from an accredited two-year college which has received approval by a regional accrediting association for change to a four-year college may be accepted by the university.

3. **Students from colleges and universities not regionally accredited.** Credit earned at colleges and universities that are not regionally accredited is not accepted in transfer. When students are admitted from colleges and universities not regionally accredited, the University of Northern Iowa will determine if the student may validate credit by satisfactory academic study in residence, or by examination. The university will specify the amount of transfer credit and the terms of the validation process at the time of admission.  
In determining the acceptability of transfer credit from private colleges in Iowa which do not have regional accreditation, the Regent Committee on Educational Relations, upon request from such institutions, evaluates the nature and standards of the academic program, faculty, student records, library, and laboratories.
4. **Students from foreign colleges and universities.** Transfer credit from foreign educational institutions may be granted after a determination of the type of institution involved, its recognition by the educational authorities of the foreign country, and after an evaluation of the content, level and comparability of the study to courses and programs at this university. Credit may be granted in specific courses, but is frequently assigned to general areas of study. Extensive use is made of professional journals and references which describe the educational systems and programs of individual countries.

## High School Preparation for Undergraduate Admission

Students entering the university must have completed the following set of high school courses (units) or their equivalents. These high school units apply to entering freshmen and transfer students with less than 24 semester hours of transferable college credit.

Subject	Requirement	Explanation
English	4 years	Must include 1 year of composition. May include 1 year of speech, communications and/or journalism.
Mathematics	3 years	Must include equivalent of algebra, geometry, and advanced algebra.
Social Studies	3 years	Anthropology, economics, geography, government, history, psychology, and/or sociology are acceptable.
Science	3 years	General science, biology, chemistry, earth science and/or physics are acceptable. Laboratory experience is highly recommended.
Electives	2 years	Additional courses from subject areas identified above are acceptable. May include foreign language* and/or fine arts.

\*Two years of **one** foreign language in high school with a C- or above in the last term meet the university graduation requirement. The university highly recommends that students fulfill this requirement while in high school.

Students who graduated from high school before 1988 and transfer students who graduated from high school in 1988, and after, who have



## Admissions Requirements

completed 24 or more semester hours of transferable college credit will be considered exempt from the high school course requirements for admission.

### Admission Requirements for Graduate Students

All applicants for graduate study must submit an application form specifying their choice of degree program with a \$40 application fee or \$50 fee for international students and request all necessary official transcripts be sent to the Office of the Registrar (see pages 62-63), *unless you received your undergraduate degree from the University of Northern Iowa*. The application review process will be delayed until the application fee is received. Failure to provide official transcripts from all required colleges and universities can result in a denial or rescinding of admission.

Admission to graduate study does not guarantee admission to an advanced degree program. Responsibility for determining eligibility for admission to graduate degree programs rests primarily with the academic departments. The academic departments are responsible for receiving degree status admission applications and for determination of admissibility.

A graduate of a college or university accredited by the North Central Association of Colleges and Secondary Schools or a corresponding regional agency will be granted admission to graduate study if her/his application for admission has been approved.

A graduate of a college or university that is not accredited may be granted provisional admission at the discretion of the Dean of the Graduate College.

For further details on graduate admission eligibility and approvals, see pages 62-63.

**Note:** *Students with a recognized baccalaureate degree who are seeking a second baccalaureate degree, teaching endorsements or approvals through UNI recommendation, and/or miscellaneous undergraduate course work may be admitted through the undergraduate Office of Admissions. These students pay undergraduate fees and may not apply credit earned toward a graduate program.*

### Classification of Residents and Nonresidents for Admission, Tuition, and Fee Purposes

#### I. General

- A. A person enrolling at one of the three state universities shall be classified as a resident or nonresident for admission, tuition, and fee purposes by the Registrar or someone designated by the Registrar. The decision shall be based upon information furnished by the student and other relevant information.
- B. In determining resident or nonresident classification, the issue is essentially one of why the person is in the state of Iowa. If the person is in the state primarily for educational purposes, that person will be considered a nonresident. For example, it may be possible that an individual could qualify as a resident of Iowa for such purposes as voting, or holding an Iowa driver's license, and not meet the residency requirements as established by the Board of Regents, State of Iowa, for admission, tuition, and fee purposes.
- C. The Registrar, or designated person, is authorized to require such written documents, affidavits, verifications, or other evidence deemed necessary to determine why a student is in Iowa. The burden of establishing that a student is in Iowa for other than educational purposes is upon the student.  
*A student may be required to file any or all of the following:*
  1. A statement from the student describing employment and expected sources of support;
  2. A statement from the student's employer;
  3. A statement from the student's parents verifying non-support and the fact that the student was not listed as a dependent on tax returns for the past year and will not be so listed in future years;
  4. Supporting statements from persons who might be familiar with the family situation;
  5. Iowa state income tax return.
- D. Change of classification from nonresident to resident will not be made retroactive beyond the term in which application for resident classification is made.
- E. A student who gives incorrect or misleading information to evade payment of nonresident fees shall be subject to serious disciplinary action and must also pay the nonresident fees for each term previously attended.
- F. Review Committee.

These regulations shall be administered by the Registrar or someone designated by the Registrar. The decision of the Registrar or designated person may be appealed to a University Review Committee. The finding of the Review Committee may be appealed to the Board of Regents, State of Iowa.

#### II. Guidelines

The following guidelines are used in determining the resident classification of a student for admission, tuition, and fee purposes.

- A. A financially-dependent student whose parents move from Iowa after the student is enrolled remains a resident provided the student maintains continuous enrollment. A financially-dependent student whose parents move from Iowa during



the senior year of high school will be considered a resident provided the student has not established domicile in another state.

- B. In deciding why a person is in the state of Iowa, the person's domicile will be considered. A person who comes to Iowa from another state and enrolls in any institution of post-secondary education for a full program or substantially a full program shall be presumed to have come to Iowa primarily for educational reasons rather than to establish a domicile in Iowa.
- C. A student who was a former resident of Iowa may continue to be considered a resident provided absence from the state was for a period of less than twelve months and provided domicile is reestablished. If the absence from the state is for a period exceeding twelve months, a student may be considered a resident if evidence can be presented showing that the student has long-term ties to Iowa and reestablishes an Iowa domicile.  
A person or the dependent of a person whose domicile is permanently established in Iowa, who has been classified as a resident for admission, tuition, and fee purposes, may continue to be classified as a resident so long as such domicile is maintained, even though circumstances may require extended absence of the person from the state. It is required that a person who claims Iowa domicile while living in another state or country will provide proof of the continual Iowa domicile such as evidence that the person:
  - 1. Has not acquired a domicile in another state,
  - 2. Has maintained a continuous voting record in Iowa, and
  - 3. Has filed regular Iowa resident income tax returns during absence from the state.
- D. A student who moves to Iowa may be eligible for resident classification at the next registration following twelve consecutive months in the state provided the student is not enrolled as more than a half-time student (six credits for an undergraduate or professional student, five credits for a graduate student) in any academic year term, is not enrolled for more than four credits in a summer term for any classification, and provides sufficient evidence of the establishment of an Iowa domicile.
- E. A student who has been a continuous student and whose parents move to Iowa may become a resident at the beginning of the next term provided the student is dependent upon the parents for a majority of financial assistance.
- F. A person who is moved into the state as the result of military or civil orders from the government for other than educational purposes, or the dependent of such a person, is entitled to resident status. However, if the arrival of the person under orders is subsequent to the beginning of the term in which the student is first enrolled, nonresident fees will be charged in all cases until the beginning of the next term in which the student is enrolled. Legislation, effective July 1, 1977, requires that military personnel who claim residency in Iowa (home of record) will be required to file Iowa resident income tax returns.
- G. A person who has been certified as a refugee or granted asylum by the appropriate agency of the United States who enrolls as a student at a university governed by the Board of Regents, State of Iowa, may be accorded immediate resident status for admission, tuition, and fee purposes where the person:
  - 1. Comes directly to the state of Iowa from a refugee facility or port of debarkation, or
  - 2. Comes to the state of Iowa within a reasonable time and has not established domicile in another state.
 Any refugee or individual granted asylum not meeting these standards will be presumed to be a nonresident for ad-

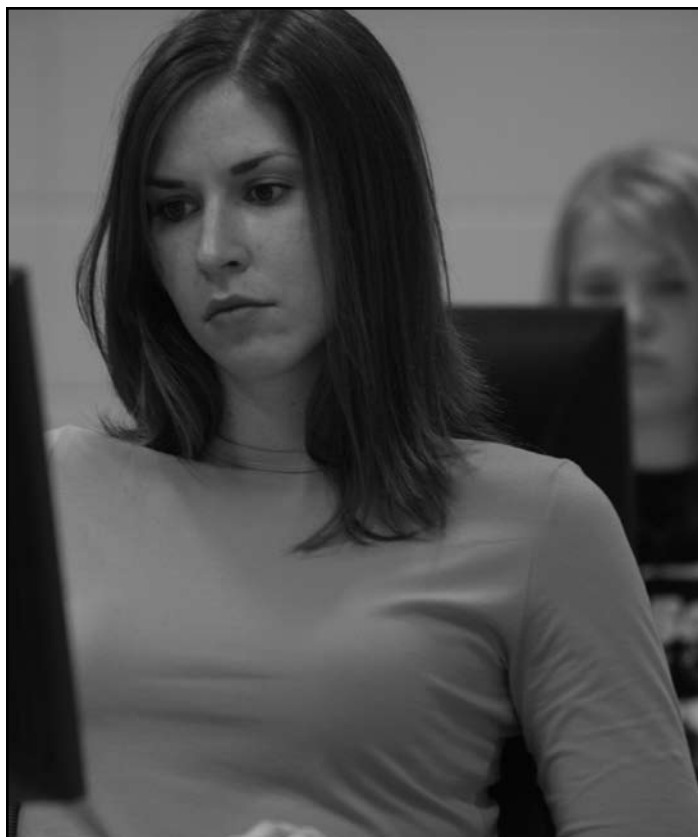
mission, tuition, and fee purposes and thus subject to the usual method of proof of establishment of Iowa residency.

- H. An alien who has immigrant status establishes Iowa residency in the same manner as a United States citizen.

### III. Facts

- A. The following circumstances, *although not necessarily conclusive*, have probative value in support of a claim for resident classification:
  - 1. Reside in Iowa for twelve consecutive months, and be primarily engaged in activities other than those of a full-time student, immediately prior to the beginning of the term for which resident classification is sought.
  - 2. Reliance upon Iowa resources for financial support.
  - 3. Domicile in Iowa of persons legally responsible for the student.
  - 4. Former domicile in the state and maintenance of significant connections therein while absent.
  - 5. Acceptance of an offer of permanent employment in Iowa.
  - 6. Other facts indicating the student's domicile will be considered by the universities in classifying the student.
- B. The following circumstances, standing alone, do not constitute sufficient evidence of domicile to effect classification of a student as a resident under these regulations:
  - 1. Voting or registration for voting.
  - 2. Employment in any position normally filled by a student.
  - 3. The lease of living quarters.
  - 4. Admission to a licensed practicing profession in Iowa.
  - 5. Automobile registration.
  - 6. Public records, for example, birth and marriage records, Iowa driver's license.
  - 7. Continuous presence in Iowa during periods when not enrolled in school.
  - 8. Ownership of property in Iowa, or the payment of Iowa taxes.

# Enrollment and Registration Procedures



## Enrollment

**Organization by Semesters.** The university operates on the semester basis. This means that the work during the academic year is divided into two semesters of approximately sixteen weeks each (15 weeks of instruction and 1 week of final exams). One semester hour of credit is based on one hour of work per week for fifteen weeks.

**Summer Sessions.** The 2008, 2009, and 2010 summer sessions will include a full eight-week session, two six-week sessions, three four-week sessions, and a number of special sessions and workshops of varying lengths. For information, write to the Office of the Registrar, Cedar Falls, IA 50614-0006 or visit the Web site at [www.uni.edu/regist](http://www.uni.edu/regist).

**University Office Hours.** The university's principle administrative offices are open from 8:00 a.m.- 5:00 p.m. Monday through Friday during the academic year (from the beginning of the fall semester to spring commencement). During the remainder of the year (the summer months) the offices are open from 7:30 a.m.- 4:30 p.m. *Monday through Friday.* Specific dates are determined yearly.

Students and their parents are invited to come to the campus to make arrangements for university enrollment. Such visits should be made on Mondays through Fridays to maximize exposure to the university and its services.

For information on specific dates when offices are closed for university holidays (New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas) see [www.vpaf.uni.edu/hrs/benefits/holiday.shtml](http://www.vpaf.uni.edu/hrs/benefits/holiday.shtml).

*The university's academic calendar and holidays are subject to approval by the Board of Regents, State of Iowa.*

## Registration Procedures

**New students, both graduate and undergraduate,** cannot register for classes until all requirements for admission to the university are met.

After admission requirements are met, new graduate students will register in accordance with the procedures set out in the Schedule of Classes.

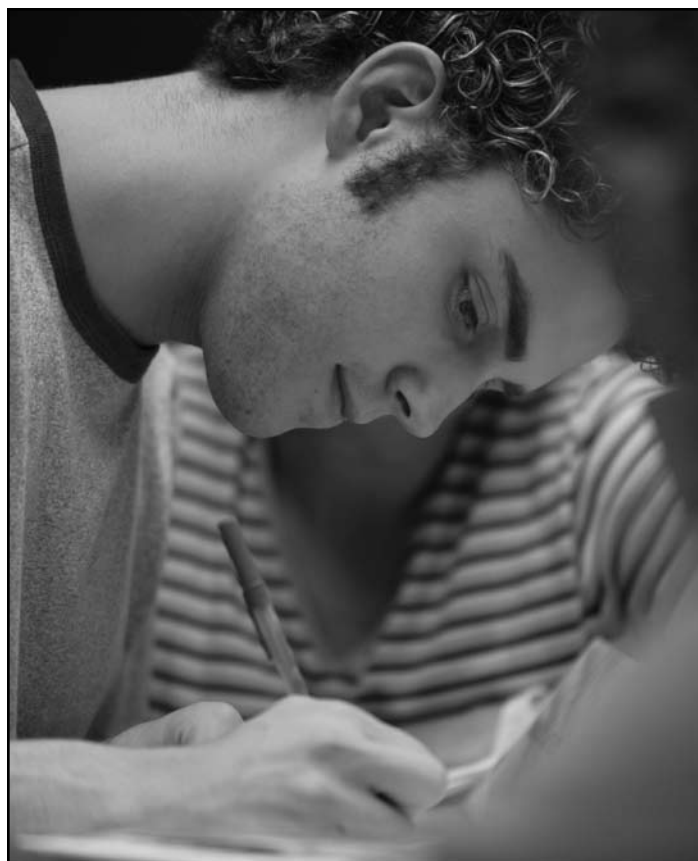
After admission requirements are met, new undergraduate students will receive their registration materials in connection with the orientation program provided for such students. Further instruction for completing registration will be given during the orientation program.

**Former students** returning to the university after an absence of a semester or more must file a *notice of intent to register* for the semester or summer session in which they plan to enroll. The notice of intent to register is filed with the Office of the Registrar. Specific information for each semester's registration procedures is given in the front section of the Schedule of Classes for that particular semester; this schedule is available at the Office of the Registrar. Students can also access their registration information via the Web at [www.uni.edu/regist/reginfo.htm](http://www.uni.edu/regist/reginfo.htm) or <http://myuniverse.uni.edu>

**Veterans.** The university cooperates with the Veterans Administration providing for the education of veterans under the provision of federal laws. Dependents of veterans or of those persons who may be classified as prisoners of war or missing in action may also receive financial assistance from the Veterans Administration. The Office of the Registrar will assist students eligible under any of these laws and provide the required reports. For additional information, contact the Office of the Registrar, University of Northern Iowa, Cedar Falls, IA 50614-0006.

## Student Requests

Student requests are used by students to seek appropriate approval(s) for a variety of requests. The request is made on line through MyUNiverse, Student Requests. Under the category My Personal Records, the first link on the list is Student Requests. Students click on that link, and follow instructions to write, submit, and review the approval status of all their student requests.



# Fees and Financial Aid

## Student Costs and Student Fees

All fees and all policies governing the refund of fees are subject to change by the Board of Regents, State of Iowa.

Current information on tuition, fees, and miscellaneous fees for a specific semester can be found at [www.uni.edu/infosys/tuition/](http://www.uni.edu/infosys/tuition/).

Students are required to provide their own books. Students may buy their texts from any source. A student organization operates a book exchange at the beginning of each semester. An estimated cost for books, as well as an estimate of other expenses to be considered in a students personal budget, can be found at [www.uni.edu/infosys/tuition/](http://www.uni.edu/infosys/tuition/).

Specific information on residence hall fees may be obtained from Department of Residence, Redeker Center or [www.uni.edu/infosys/tuition/](http://www.uni.edu/infosys/tuition/).

**Fee Payment and Billing.** The university offers students the option of paying their tuition fees and residence hall room and board contracts in one payment at the time of billing or in three monthly installments. Each university electronic e-bill will give the student the option of paying the account balance at the time of billing or the minimum amount due (installment amount). A \$20 administrative charge will be assessed one time per semester for the installment payment plan. Normally, three installment payments can be made for a regular semester depending on the date of registration.

Other fees for which students will be billed are parking permits, health center fees, athletic tickets, laboratory fees, university apartment rent, and miscellaneous fees which may occur. These are not included in the installment option.

The university does not mail paper bills to enrolled students or their parents. Instead, electronic e-bills are available through MyUNiverse at <http://myuniverse.uni.edu>. Monthly e-bills are generated the 10th of every month and payments are due approximately the 5th of the following month. For billing dates and payment due dates, refer to the Schedule of Classes for the appropriate session or visit the Web site at [www.uni.edu/register](http://www.uni.edu/register). It is the students responsibility to check their e-bill account at least monthly and make required payments by the due date.

**Note:** Students electing to use the installment payment program are reminded that they will be placed under Restricted Enrollment status if payments are not made to the University Office of Business Operations by the date specified on the billing. A \$25 restricted enrollment fee will be assessed for each billing which remains past due. Students placed on Restricted Enrollment status will not be permitted to pre-register or to receive academic records until this status has been lifted.

See page 37 for information on withdrawal refunds and fee reduction.

## Financial Aid Office

The University of Northern Iowa Financial Aid Office administers a comprehensive program of financial assistance for students. The office offers all federal student aid programs as well as a variety of scholarship assistance.

Financial Aid/Student Employment Center contact information is:

### Financial Aid Office

Cedar Falls, IA 50614-0024

Telephone: 319-273-2700 or 1-800-772-2736

Fax: 319-273-6950

Web site: [www.uni.edu/finaid](http://www.uni.edu/finaid)

### Student Employment Center

Cedar Falls, IA 50614-0024

Telephone: 319-273-6394

Office Hours 8:00 a.m. - 5:00 p.m.

Summer Hours 7:30 a.m. - 4:30 p.m.

## Financial Aid Information On the Web

Financial Aid Award Notification, Online Job Board, Online Common Scholarship Application, scholarship directory, general information and information needed by the Financial Aid Office to continue processing a students aid is posted on MyUNiverse at <http://myuniverse.uni.edu>. For new students, information needed by the Financial Aid Office is mailed to the student as well as being available on MyUNiverse. For returning UNI students, information is only available on MyUNiverse, unless the student contacts the Financial Aid Office and requests the information be mailed. An e-mail notification is sent to the students UNI e-mail address when information is needed, and the student is responsible for checking MyUNiverse for details.

## Federal Student Aid Programs

Students must complete a Free Application for Federal Student Aid (FAFSA) form to have eligibility determined for a Pell Grant, Academic Competitiveness Grant, SMART Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Work Study, or Direct Stafford Loans (subsidized and unsubsidized). Students need to apply for financial aid each year. Applying for a Parent Loan for Undergraduate Students (PLUS) does not require the completion of a FAFSA, however, it is recommended.

Qualifying for student aid requires enrollment of at least half-time, and admission in a degree or certificate program. Financial aid is not available for correspondence (specified as Guided Independent Study at UNI), Camp Adventure, or audited courses.

**Pell Grants.** These awards help undergraduates pay for their education while working on their first bachelor's degree. Amounts vary based on FAFSA results and enrollment status. A Pell Grant does not have to be repaid.

**Supplemental Educational Opportunity Grants (SEOG).** This program targets students receiving a Pell Grant and having exceptional financial need. Awards range up to \$1,000 per academic year. A SEOG does not have to be repaid.

**Academic Competitiveness Grant (ACG)** recipients must qualify for Pell and have completed a rigorous high school curriculum as defined by the state of Iowa. Freshmen are eligible for up to \$750, and sophomores are eligible for up to \$1300 if maintaining a 3.00 GPA.

**SMART Grants** are awarded to Pell eligible juniors and seniors with majors in the math or science areas. Some foreign languages are also eligible. Students must maintain a 3.00 GPA and be enrolled in at least one course within their SMART eligible major to receive the award each semester.

**Perkins Loan.** Perkins Loans awards are based on need and range from \$200 to \$2,000. Interest begins accruing 9 months after the borrower is no longer at least a half-time student. Repayment to the university is made in monthly installments. Deferments are possible if a borrower returns to college at least half-time.

**Federal, State, and UNI Work Study.** These are programs for students with financial need who desire employment to help pay for educational expenses. Both undergraduate and graduate students can qualify for work study. The minimum pay rate is \$7.25 per hour.

**Direct Stafford Loan** (subsidized and unsubsidized). The Subsidized Stafford Loan is based on financial eligibility. The Unsubsidized Stafford Loan is available to all degree-seeking students. Freshman students may borrow up to \$3,500 for an academic year. Sophomore students may borrow up to \$4,500 for an academic year. Junior or senior students may borrow up to \$5,500 for an academic year. The total amount an undergraduate may have outstanding cannot exceed \$23,000. Graduate students can borrow up to their cost of attendance as determined by UNI or \$20,500, whichever is less, per academic year. The total amount any one student may borrow for a combined undergraduate and graduate

## Fees and Financial Aid

program may not exceed \$138,500. Repayment begins six months after the student ceases to be enrolled at least half-time.

**Parent Loan for Undergraduate Student (PLUS).** A parent of a dependent student may be eligible for an amount up to the cost of education less any other Direct Stafford Loan, financial aid, or scholarship money available to the student to use for educational expenses. Interest is fixed at 7.9%. Repayment begins within 60 days following the last disbursement of the loan.

## Standards of Satisfactory Progress for Financial Aid Eligibility

Standards of Satisfactory Progress is a two-part federal regulation to ensure that students receiving aid are:

1. making satisfactory progress toward a degree, and
2. completing a degree within a specific time period, regardless if financial aid was received in the past.

The aid programs that are affected include, but are not limited to: Pell Grant, Academic Competitiveness Grant, SMART Grant, Perkins Loan, Supplemental Educational Opportunity Grant, Federal, State, and UNI Work Study, institutional grants, state grants, Direct Stafford Loan (subsidized and unsubsidized), Direct Parent Loan for Undergraduate Students, and certain education bank/private lender loans.

### 1. Making Progress Toward a Degree Each Semester

Only fall and spring semesters are evaluated. (Summer is not evaluated.)

#### **Undergraduate/Graduate/Doctorate**

Students who enroll **full-time** (12 credit hours or more per semester) are required to complete a minimum of **9** credit hours per semester.

Students who enroll **6-11 credit hours** per semester are required to complete a minimum of **6** credit hours per semester.

Students who enroll **1-5 credit hours** per semester are required to complete all the hours enrolled that semester.

### 2. Completing A Degree Within a Specific Time Frame For Financial Aid Eligibility

*The total academic record (Summer included) is reviewed, regardless if aid was received or credit was earned at UNI.*

**First BA** students are required to complete a degree within 12 full-time semesters, 18 three-quarter time semesters, or 24 half-time semesters or upon completing 160 credit hours.

**Second BA/Teaching Certification/1st MA/1st Doctorate** students are required to complete a degree within 6 semesters, 9 three-quarter-time semesters, or 12 half-time semesters, or upon completing 60 credit hours. Please inform the Financial Aid Office if your program requires more than 60 credit hours.

**Other degrees, such as 2nd BA, 2nd MA, 2nd Doctorate after beginning a 1st MA,** must be funded by the student without financial aid. (Exceptions may be allowed through the Appeal Process as indicated below.)

### 3. Other Guidelines

**Grades.** Grades of A, B, C, D, Cr, P, or X are counted as meeting the required hours. Failed classes, audited classes, incomplete grades, and withdrawn classes are not counted toward completed hours for Satisfactory Progress.

**Financial Aid Academic Progress Warning.** The first semester in which a student does not complete Satisfactory Academic Progress, the student will receive a warning notification, but will continue to be eligible for financial aid. Also, a student who is nearing the allotted timeframe to

complete a degree will be notified and informed of the number of financial aid semesters remaining.

**Not Eligible Status for Financial Aid.** Once a student has received a warning, any subsequent Fall or Spring semester in which the student does not maintain Satisfactory Progress will result in the student being notified about the loss of financial aid eligibility. A student who has reached the allotted timeframe to complete a degree will also lose financial aid eligibility. Please contact the Financial Aid Office if the graduate program requires more than 60 credit hours.

**Appeal Process and Deadline.** An appeal process is in place for those experiencing extenuating circumstances that affected their ability to make satisfactory academic progress. Appeal forms may be obtained from the Financial Aid Office. Appeals must be submitted no later than the end of the first week of classes following the suspended semester or within 15 calendar days of the date on the academic progress letter, whichever is later. (If suspension occurs at the end of the spring semester, students are encouraged to appeal during the summer period.) A written outline of required course work per semester until graduation signed and dated by the student and the advisor is required.

**Reinstatement of Financial Aid.** Students approved to receive aid again will be expected to adhere to the Satisfactory Progress Policy outlined above and any conditions listed on the Appeal Approval Contract.

**Financial Aid Adjustment.** If financial aid has already been awarded and an appeal is not completed or approved, the financial aid funds will be canceled 30 days after the start of the suspended semester. Reinstatement of the financial aid is contingent upon the availability of the funds at the time the appeal is approved.

**Grant Adjustment.** Grants are need-based aid. The Pell Grant Program is for students working on their first B.A. degree. Due to federal regulation and university policy, the actual amount of grant that you receive is based on the number of credit/hours for which you are enrolled.

This means that if a grant has already been disbursed to you and you add or drop classes during the first 2 weeks of the semester, your grant will be adjusted. After the second week of classes grants do NOT adjust. If you have any questions about how your grant may be affected by adding or dropping a class, please contact the Financial Aid Office.

**Correspondence (specified as Guided Independent Study at UNI), Camp Adventure, Audited Courses.** Financial aid is **not** available for correspondence (specified as Guided Independent Study at UNI), Camp Adventure, or audited courses. If you have any questions regarding this policy, please contact the Financial Aid Office at 319-273-2700.

**Student Loans.** Students must complete a Free Application for Federal Student Aid (FAFSA) and complete a Master Promissory Note to be eligible for federal loans. You will complete only one promissory note that will be used for all of your loans at UNI. Direct Loan promissory notes can be completed online at [www.dlenote.ed.gov](http://www.dlenote.ed.gov). By using the Master Promissory Note (MPN), you may not need to sign and submit a separate promissory note for each new loan. A student who borrows under the Direct Loan Program at UNI will be able to borrow under this one MPN up to ten years. **If you borrowed a Direct Loan at UNI in the prior academic year, you do not need to complete another promissory note.** Students must also be degree-seeking and enrolled at least half-time (6 hours for undergraduate, 5 hours for graduate) before loan funds can be released. All loan proceeds are credited directly to your university bill.

**How Dropping Credit Hours or Withdrawing from UNI Affects Financial Aid.** If you drop credit hours or withdraw from UNI, your cost of attendance and financial aid may be revised to reflect any tuition adjustment. You may have to repay a portion or all of your financial aid as required by law or by applicable fund donor. The exact amount of repayment will vary depending on when the credits are dropped or when the withdrawal occurs. In addition, you may become ineligible for future

financial aid due to failure to meet the Financial Aid Academic Progress Requirements.

Federal regulations require students who withdraw before over 60% of the semester has passed to return unearned federal aid in a proportion equal to the time not in attendance. For example, if a student completes 30% of the semester, then 30% of the federal aid received may be retained and the other 70% of the federal aid received must be returned. If a student withdraws after the 60% point in time of the semester, then all aid received may be retained. Loans must be paid back according to the loan agreement. Institutional and state aid are returned in percentages equal to the institutions tuition and fees refund policy (see page 37). For example, if a student receives 25% tuition refund, then an equal percentage of 25% will be returned to all state and institutional aid programs. Contact the Financial Aid Office for more information.

Funds will be returned to the financial aid programs in the following order: federal loan programs, federal grant programs, state programs, UNI programs, outside agencies, student. You will be notified of adjustments to your financial aid award via your university bill.

## Summer Aid Financial Aid

For financial aid purposes, the summer session is considered the final term of the award year. Federal aid programs have an academic year maximum amount of aid that can be received. For example, if you are a dependent freshman with 0-29 semester hours you may borrow only \$3,500 in Direct Loans for the entire academic year (12 months - fall, spring and summer). Therefore, summer aid is limited.

### To be eligible for financial aid for the summer you must:

1. **Have a current year FAFSA submitted by June 1.**
2. **Be enrolled at least half-time during the summer** - five credits for undergraduate students and four credits for graduate students. Audited courses, correspondence (specified as Guided Independent Study at UNI) courses, and Camp Adventure do not count toward enrollment.
3. **Submit** a Summer Financial Aid Request form to the Financial Aid Office (available online in March).
4. **Be admitted to a program leading to a degree.** Non-degree students are ineligible for financial aid.
5. **Not be on Financial Aid Academic Progress Suspension** (see page 18) or Registrar Academic Suspension (see pages 39-40).
6. **Not be in default on any educational loan, and not owe any refund on a grant or loan at any institution.**

## Grants and Scholarships

**UNI Grants.** These institutional grants are need-based, non-repayable gifts, ranging from \$400 to \$1,000. The exact amount of the grant depends upon the student's financial need as indicated by the results of their FAFSA.

**Federal Grants.** Federal grants are intended to assist students whose FAFSA results indicate a high level of financial need. The amount ranges from \$400 to \$4,310. The federal government has the Pell Grant and Supplemental Educational Opportunity Grant (SEOG), Academic Competitiveness Grant, and the SMART Grant available for undergraduate students who complete the FAFSA and demonstrate high financial need.

**State Grants.** State grants are available for Iowa students who are enrolled at least half-time who complete a FAFSA and demonstrate financial need. The grants are awarded based upon an Iowa undergraduate student's expected family contribution. Iowa grant awards range up to \$1000 per year. The IMAGES grant is also available for Iowa minority students enrolled at least half-time. Awards range from \$200 to \$2,000.

**Scholarships.** A wide variety of scholarships are available at the

University of Northern Iowa for students who are academically qualified. Scholarships are also available to students with outstanding creative or performing talent. Most scholarships for freshmen are awarded to students who rank in the top quarter of their high school class, or from non-ranking high schools and have an ACT composite score of 26 or above. Two-year college transfer students must have a minimum 3.50 cumulative grade point average. All incoming and current students are encouraged to complete the online Common Scholarship Application found at [www.uni.edu/finaid](http://www.uni.edu/finaid). For a complete listing of scholarships for incoming freshmen and transfer students, check the financial aid Web site at [www.uni.edu/finaid/](http://www.uni.edu/finaid/).

**Graduate Scholarships and Assistantships.** Several scholarships and awards, including tuition scholarships, are available for graduate students at Northern Iowa. Students should contact the department or academic college in charge of their program for information on eligibility and application procedures. Students may locate the scholarship directory at [www.uni.edu/finaid/](http://www.uni.edu/finaid/), which gives a complete listing of all scholarships available for graduate students and currently enrolled UNI students. For further details on requirements related to graduate scholarships and assistantships, see page 65.

**Army G.I. Bill.** Undergraduates serving in the Iowa National Guard or the U.S. Army Reserves can qualify for the New G.I. Bill. The New G.I. Bill Educational Assistance Benefits provide up to \$2,000 per year in direct payments and a \$200 kicker (if qualified), plus the student continues to earn monthly training assembly pay. Many students who qualify for the New G.I. Bill also qualify for the Student Loan Repayment Program. For additional information about the New G.I. Bill write or contact the Veterans Certification Officer in the Office of the Registrar at the University of Northern Iowa, Cedar Falls, IA 50614-0006, 319-273-6801.

**Army Reserve Officers' Training Corps (ROTC) Scholarships.** Several scholarships are available for students interested in ROTC.

- a. **Four-Year Army ROTC Scholarships.** High school seniors can apply for a four-year Army ROTC scholarship (before November 15th) of their senior year.

A four-year scholarship will pay full tuition and required educational fees; provide \$600 per semester for textbooks, supplies, and equipment; and provide a subsistence allowance of up to \$4,000 per year for each of the four years the scholarship is in effect. Winning and accepting a four-year ROTC scholarship does not preclude accepting other scholarships.

- b. **Three-Year Army ROTC Scholarships.** College freshmen apply on campus for all three-year Army ROTC scholarships during January. Winners are announced the following May.

A three-year scholarship will pay up to \$20,000 per year toward tuition and required educational fees; provide \$600 per semester for textbooks, supplies, and equipment; and provide a subsistence allowance of up to \$4,000 per year for each of the three years the scholarship is in effect. Winning and accepting a three-year ROTC scholarship does not preclude accepting other scholarships.

- c. **Two-Year Army ROTC Scholarships.** College sophomores, juniors, and seniors can attend the Army ROTC Leaders Training Course (LTC) at Fort Knox, Kentucky.

A two-year LTC scholarship will pay up to \$20,000 per year toward tuition and required educational fees; provide \$600 per semester for textbooks, supplies, and equipment; and provide a subsistence allowance of up to \$4,000 per year for each of the two years the scholarship is in effect. Winning and accepting a two-year ROTC scholarship does not preclude accepting other scholarships.

- d. **Two-Year Reserve Forces Duty Scholarships.** Prior service applicants may apply on campus; military reservists may apply on campus or through their Army National Guard or Army Reserve unit. If selected, you will be required to enlist in the Army National

## Fees and Financial Aid

Guard or Army Reserves. You will fulfill your obligation in the Army National Guard or Reserves *only*. If already in the Guard or Reserve, you incur a six-year commitment of military service.

A Reserve Forces Duty Scholarship will pay up to \$20,000 per year toward tuition and required educational fees; provide \$600 per semester for textbooks, supplies, and equipment; and provide a subsistence allowance of up to \$4,000 per year for each of the two years the scholarship is in effect. Winning and accepting a two-year Reserve Forces Duty Scholarship does not preclude accepting other scholarships.

- e. **Additional Information.** For more information about Army ROTC scholarships, write to the Department of Military Science, ATTN: Scholarship Officer, University of Northern Iowa, Cedar Falls, IA 50614-0142; come in person to West Gym (Room 203), UNI campus; or call the Scholarship Advisor at 319-273-6178 or 319-273-6337. For further information see [www.uni.edu/rotc](http://www.uni.edu/rotc).

**Athletic Scholarships** are available for incoming student-athletes as well as returning student-athletes. Athletic scholarships are awarded in amounts up to and including the full cost of tuition and fees, room and board, and course-required books. Athletics scholarships are generally awarded for a period of one academic year; and are renewable each subsequent year in accordance with NCAA and Conference rules. Athletic scholarship recipients are subject to institutional admission requirements as well as NCAA, Conference, and Institutional eligibility requirements. Recommendations for athletic scholarships are made by the head coach of each individual sport program, with approval by the Director of Athletics (or her/his designee). Athletic scholarships are provided in part by the Panther Scholarship Club (contributions), gate receipts, friends of the university, and other special accounts.

**Department of Art Scholarships** are awarded each year to high school seniors interested in majoring in art. The Annual High School Art Competition occurs each fall. After passing a portfolio review, top applicants are invited to visit the UNI campus for a day of activities and interviews. Scholarships are also available to qualified undergraduate Art students already enrolled at UNI. More information is available online at [www.uni.edu/finaid/scholarship.shtml](http://www.uni.edu/finaid/scholarship.shtml) and [www.uni.edu/artdept](http://www.uni.edu/artdept).

**College of Business Administration (CBA).** Thanks to the generosity of many donors, CBA majors have the opportunity to apply for approximately seventy-five merit-based scholarships in two types of scholarship programs.

The CBA Freshman Scholarship Day program targets current high school seniors interested in majoring in a CBA discipline at UNI. This programs online application can be found at [www.uni.edu/finaid](http://www.uni.edu/finaid). Students selected to compete for these scholarships are invited to UNI for a day of activities designed to enhance their knowledge of UNI and the CBA. This program is a fall initiative. Interested high school seniors should inquire at their schools guidance office early in the fall semester. The application deadline usually is during the last week of October.

An additional CBA scholarship program is intended for current UNI students majoring in a CBA discipline. The common scholarship application for this program also can be found online at [www.uni.edu/finaid/](http://www.uni.edu/finaid/). This program is a spring initiative and is publicized throughout the CBA via posters in the Curris Business Building and by e-mails sent to all CBA majors. The deadline for this program usually is mid-February.

Additional information regarding these CBA scholarship programs is available at [www.cba.uni.edu/services/scholarships/](http://www.cba.uni.edu/services/scholarships/) or by contacting the CBA Deans Office located in Curris Business Building 325 or by calling 319-273-6240.

Various CBA departments administer other scholarships. These scholarships are publicized by the respective departments where applications are available.

**Industrial Technology Department Tuition Scholarships** are award-

ed as funding is available to high school seniors who are planning to major in one of the undergraduate programs offered in the Industrial Technology Department. These scholarships are awarded on the following criteria: ACT scores, grade point average, rank in class, and the competitive interviews that are held on campus.

These scholarships provide base tuition exemption for up to eight semesters for students maintaining a major in the Department of Industrial Technology and a minimum cumulative grade point average of 3.00. Interested students should follow instructions posted on the universities financial aid scholarship directory ([www.uni.edu/finaid](http://www.uni.edu/finaid)), College of Natural Sciences website ([www.cns.uni.edu](http://www.cns.uni.edu)), or the Department of Industrial Technology website ([www.uni.edu/indtech](http://www.uni.edu/indtech)). Additional questions should be directed to the Department of Industrial Technology at 319 273 2561.

CNS Scholarships are awarded to high school seniors in the areas of biology, chemistry and biochemistry, computer science, earth science, industrial technology, mathematics, and physics. Each department in the College of Natural Sciences has its own criteria for the scholarships it awards, although, in general the scholarships are awarded on the basis of academic ability. The amount of the scholarships varies from \$1,000-\$5,000.

## UNI Parents Association (UNIPA) Scholarship Program

Five scholarships in the form of tuition grants applied directly to the student's account are awarded annually. One \$1,000 scholarship is awarded to a student from each of the five undergraduate colleges. Selection is completed in spring and the award realized the following fall semester. Presidential and other full tuition-and-board scholarship winners are not eligible.

To be eligible for consideration a student must a) be a full-time student, b) possess a cumulative grade point average of 3.00 or better, c) have completed at least one semester of course work at the University of Northern Iowa, d) be a sophomore, junior, or senior at the time the award is realized, and e) complete the Common Scholarship Application.

For further information, contact the UNI Financial Aid Office at 319-273-2700.





## **UNI Presidential and Provost Scholarships**

**[www.uni.edu/honors/scholarships](http://www.uni.edu/honors/scholarships)**

Presidential and Provost Scholarships are awarded by the University Honors Program to high school seniors with a history of outstanding academic performance. Top recipients will be those whose strong academic credentials are matched by personal involvement in leadership and service activities.

Presidential and Provost Scholarships are substantial awards that carry recognition for academic excellence as well as financial support.

For complete information, visit [www.uni.edu/honors/scholarships](http://www.uni.edu/honors/scholarships) or contact the University Honors Program, 2401 College Street, Cedar Falls, IA 50614-0355, 319-273-3175.

## **University of Northern Iowa Foundation**

The UNI Foundation is the official channel through which gifts, both large and small, are given for the benefit of the university. The generosity of alumni and friends of the University of Northern Iowa provides scholarships for eligible students. Students should contact the dean of their college or the Financial Aid Office for specific information on scholarships and selection criteria.

For further information contact UNI Foundation, 319-273-6078 or 1-800-782-9522, e-mail [uni.foundation@uni.edu](mailto:uni.foundation@uni.edu), or visit the UNI Foundation Web site at [www.uni-foundation.org](http://www.uni-foundation.org).

# Student Life

## Division of Student Affairs

### Mission

We help students succeed.

We help students prepare for responsible citizenship, personal fulfillment, and success in life by supporting their efforts to learn through their experiences, achieve their academic goals, and strive for excellence in all.

We do this by:

- Developing environments that are safe, welcoming, inclusive and healthy;
- Providing services that are professional, supportive and personalized; and
- Fostering meaningful student engagement in campus and community life that develops leadership, educates about diversity, and contributes to learning.

### Values

In seeking to accomplish this mission, we are committed to:

- Encouraging the development of the whole student and involving all students in the life of the University;
- Cultivating a caring and diverse campus community that values respect for all people, the open and free exchange of ideas, and responsible and ethical behavior;
- Maximizing our effectiveness through responsible stewardship of resources, support of innovation, and creativity in problem solving;
- Working collaboratively across campus and community, and fostering a work environment for our staff which encourages continuous improvement and professional development.

## Orientation

[www.uni.edu/admissions](http://www.uni.edu/admissions)

Orientation programs are offered for new students to acquaint them with available educational opportunities and university services and to assist them in the class registration process. Most new freshmen who begin their study in the fall semester attend a summer orientation program during the preceding June or July. Transfer students are invited to either a spring or summer transfer orientation program. Students who do not begin their study during fall semester attend orientation and register just before classes begin for that term. Parents of new students are invited to participate in a special parent orientation program.

## Housing

[www.uni.edu/dor](http://www.uni.edu/dor)

### Application for Rooms in Residence Halls

Official admission to the University of Northern Iowa is a prerequisite to application for housing in the residence halls. Once new students are admitted, the Department of Residence sends an invitation for the student to apply for housing online. **This invitation is included with the student's letter of acceptance from the Office of Admissions.** The Department of Residence Web site includes information about each residence hall, the dining operations, and the housing and dining contract. The residence hall and dining contract serves as the official application for housing in the residence halls. The application process includes completion of the contract, payment of the \$25 application fee and a \$200 prepayment. Payment is also accepted online. Paper contracts are available and will be sent at a later date to those who do not complete the contract process on the Internet.

The 2-Year Advantage option features a price freeze for housing and dining rates from year one to year two of the contract. Additional benefits include waiver of the prepayment for the second year of the contract and early move-in at no additional charge.

Room assignments are made on a date-of-prepayment basis. If an applicant finds it necessary to cancel the contract before occupying the room, the prepayment refund or forfeiture is based on the date of written notification and fulfills the terms of the contract terms and conditions.

Inquiries should be directed to:

Department of Residence

Redeker Center

Cedar Falls, IA 50614-0252

319-273-2333 or toll free 866-207-9411

[live@uni.edu](mailto:live@uni.edu)

## Occupancy

Residence hall occupancy begins officially on the Friday prior to the first day of classes for Fall semester; and the Friday before classes begin for the Spring semester. If a reserved room is not occupied on the first day of classes and arrangements have not been made with the Department of Residence for later occupancy, the reservation will be cancelled and prepayment forfeiture and penalties will be applied as stated in the contract terms and conditions.

The residence hall and dining contract covers an entire academic year or the balance thereof; separate contracting is necessary for the summer session. If the contract is terminated before the expiration date, appropriate provisions of the contract will apply. The student is responsible for any financial liabilities incurred prior to the date of termination and 40% of the remaining portion of the contract.

## Residence Halls

Students living in on-campus residence halls have the advantage of easy access to all classrooms, campus activities and campus resources. Residence hall rooms have a broadband Internet connection for each occupant and cable television. A local telephone connection, furnishings and utilities are included. The Department of Residence is designed to provide housing to 4,600 students in ten residence halls. In addition to student rooms, each residence hall offers office support services, lounges, study rooms, recreational areas, laundry rooms, and other facilities for the comfort and convenience of the students. Computer labs are located in residence facilities throughout campus. A professional staff member supports activities that promote academic success and social events that build a strong sense of community.

Floors within each residence hall accommodate approximately 40 students and are designated as houses. Each house sponsors its own social, cultural, and recreational programs. There are houses reserved for first-year students and houses reserved for upperclass students. Rooms for single occupancy, double occupancy and triple occupancy (suites) are available. One resident assistant (a student staff member) lives in each house to serve as a resource person for the members of that house.

Women's halls include Hagemann and Lawther. Coeducational housing is provided in Bartlett, Bender, Campbell, Dancer, Lawther, Noehren, and Shull Halls. All rooms in Shull Hall are designed for single occupancy and are available to upperclass students only. Continuous housing (during academic break periods) is available in Bartlett, Bender, Dancer, Noehren, Rider and Shull Halls. All halls are open during the Thanksgiving and Spring breaks.

## ROTH Complex

Apartment and suite-style housing is open to sophomores, juniors, and seniors. Residents with good academic and behavioral status qualify for housing in ROTH. ROTH residents may prepare their own meals

or buy one of the many dining plans available. Students interested in ROTH as their home away from home, can get additional information and submit a contract for ROTH housing online at [www.uni.edu/dor](http://www.uni.edu/dor) or contact Department of Residence, Redeker Center 319-273-2333 or toll free 866-207-9411 or ROTH 319-273-7051.

## University Apartments

One- and two-bedroom unfurnished apartments are available to married students, single parents with families, graduate students, and non-traditional students. Assignments are made on a date-of-application priority basis with married and single student parents with families having priority over graduate and non-traditional students. Information on the University Apartments community is available online at [www.uni.edu/dor](http://www.uni.edu/dor). Applications and all inquiries should be directed to:

University Apartments Office  
3900 Jennings Drive - Hillside Courts  
Cedar Falls, IA 50613  
319-273-6232

## Dining Service

Dining service is provided in numerous locations across campus. The community meal plans are available to first-year students. Upper-class students have expanded flexibility with meal plan options. Students who live off campus may contract for service and enjoy the quality and convenience of on-campus dining.

## Housing and Dining Contracts

Contractual responsibilities are reviewed annually and are subject to change. Refer to terms and conditions of the current contract. The current terms and conditions are available at [www.uni.edu/dor](http://www.uni.edu/dor).

## Advising

### Advising - Mission Statement

Academic advising is a critical component of the teaching and learning environment at UNI. Advising is a personalized educational experience, empowering students to explore, articulate, and achieve their academic, career, and life goals.

### Vision Statement

UNI aspires to create the best academic advising experience for each student.

### Advising Goals

1. Promote a culture of quality academic advising through advisor education, recognition, and reward, and advising program assessment.
2. Assist students in understanding the nature and purpose of higher education.
3. Ensure that all students have access to knowledgeable and respectful advisors.
4. Provide accurate information about university requirements, policies, and procedures.
5. Encourage, support, and guide students to take responsibility for meeting their own educational, personal, and career goals.

## Office of Academic Advising

[www.uni.edu/advising](http://www.uni.edu/advising)

The Office of Academic Advising serves as the academic center for deciding students who are exploring majors, students changing majors, and students reassessing their current academic situation. Students in the

process of exploring major options are assigned an advisor in the Office of Academic Advising.

The Office of Academic Advising places students at the center of our advising and believes students are capable, with sufficient information and support, of directing their own academic lives at UNI. This requires that students be active participants in the academic advising process.

The Office of Academic Advising can help students:

- find a major
- link majors with careers
- relate career goals to majors
- select appropriate courses and other educational experiences
- adjust semester course schedule
- tailor academic program to fit interests
- enroll in a credit bearing course: 170:050 Career Decision Making
- interpret institutional academic requirements
- develop decision-making skills

The Office of Academic Advising is open to all students who wish to receive assistance in selecting majors, minors and certificate programs; identify and resolve academic difficulties. Individual conferences, special programs and course help are offered to students, who have not decided upon a major, to set realistic academic goals.

Questions related to new student advisement and undergraduate advising should be directed to Academic Advising, 242 Gilchrist, 319-273-3406.

## Career Services

[www.uni.edu/careerservices](http://www.uni.edu/careerservices)

The Career Services department helps all UNI students to develop skills employers and graduate schools value. Experienced staff and peer assistants provide expertise in resume development, interview skills, and career development, helping students explore careers, develop job search materials, and hone their interviewing skills through mock interviews.

The Cooperative Education/Internship Program helps students find an internship where they can earn money, earn academic credit, and gain career-related experience for their resumes while they prepare for employment after graduation.

Career Services maintains active contacts with hundreds of employers, and provides students with information and support to prepare for career opportunities before and after graduation. Besides providing on-line job listings via UNI CareerLink, the department also provides employer contacts through on-campus interviewing and four career fairs each year; two of which are geared toward education majors.

For further information regarding any of these services visit the Web site or contact the Career Services office at 319-273-6857.

## University Health Services

University Health Services provides comprehensive mental health, physical health, and wellness services to students enrolled at the University of Northern Iowa. Services include consultation, treatment, and a full range of health promotion, wellness, and recreation activities.

## Health Clinic and Pharmacy

The Health Clinic and Pharmacy are located in the Student Health Center, on the south side of 23rd Street next to the Schindler Education Center. The Health Clinic provides out-patient medical services Monday through Friday when classes are in session.

Emergency coverage is available at any of the hospital emergency rooms in the Cedar Falls and Waterloo area. Ask-a-Nurse advice may be obtained by calling 319-272-2600.

A group accident and sickness insurance plan may be purchased

## Student Life

through the university on a voluntary basis for those without medical insurance. International students are required to have health insurance as a condition of admission. More detailed information concerning services and hours is available at [www.uni.edu/health](http://www.uni.edu/health) 319-273-2009.

### Counseling Center

The Counseling Center is located on the upper level of the newly renovated and expanded Student Health Center. The Counseling Center is staffed with professional counselors and psychologists who provide confidential counseling services to students without charge.

Appointments for counseling may be made directly at the Counseling Center or by calling 319-273-2676. More information is available at [www.uni.edu/counseling](http://www.uni.edu/counseling).

### Office of Disability Services (ODS)

The Office of Disability Services is located within the Counseling Center in the Student Health Center. The ODS works with students to ensure that all persons with disabilities have access to university activities, programs, and services. To obtain information regarding services, call the ODS at 319-273-2676. More information is available at [www.uni.edu/disability](http://www.uni.edu/disability).

### Wellness and Recreation Services

The Wellness and Recreation Center, located next to the UNI-Dome, is home to Wellness and Recreation Services.

Program information is available at the WRS Web site [www.uni.edu/wellrec](http://www.uni.edu/wellrec).



### Division of Vocational Rehabilitation Services

Vocational Rehabilitation Services is a state agency funded with federal and state monies. The University of Northern Iowa provides office space for a counselor and secretary in Baker 30. If a student has a physical or mental impairment which constitutes or results in a substantial impediment to employment, they are eligible to apply for services. Students will be required to discuss and/or provide documentation of their disability. Students may apply for services if they are having difficulty with course work or accessing services on campus due to their disabling condition.

Rehabilitation Services may include:

- medical and psychological assessment
- technological assessment
- vocational assessment
- counseling and guidance
- physical and/or mental restoration services which may include therapy, wheelchairs, hearing aids, eye glasses, etc.
- special adaptive equipment or devices
- training for employment tuition assistance may be provided

- based on financial need
- personal assistance
- assistance with job search

Students who are interested in more information about Vocational Rehabilitation Services may contact the office at 319-273 6348.

### International Services Office

Undergraduate and graduate students who come to UNI from countries throughout the world are served by a central office. Through the International Services Office, students are assisted in making arrangements to come to the campus from their home countries and in their daily campus activities while they are pursuing their educational careers.

The Office of Admissions receives and acts on undergraduate applications and graduate applications. It is the responsibility of International Services to issue Certificates of Eligibility to all admitted students (both F-1 and J-1) and invited scholars/researchers/professors. The office sends out housing contracts for on-campus housing along with other pre-departure information to all admitted undergraduate and graduate students, and meets the students at the Waterloo or Cedar Rapids airport when they arrive.

Throughout the year, International Services sponsors educational and social programs. Students may also seek the assistance of the International Student Advisor in academic, personal, and immigration matters.

For information concerning international admissions, consult the Web site at [www.uni.edu/intladm](http://www.uni.edu/intladm). For additional assistance, undergraduate and graduate applicants should contact the Office of Admissions at 319-273-2281 or write to the Office of Admissions, UNI, Cedar Falls, IA 50614-0018.

### Student Activities and Honors

Co-curricular activities are encouraged at the University of Northern Iowa because of the important contribution these activities make to the total education of the student. The university maintains an extensive program of co-curricular activities: intercollegiate athletics, theatre, forensics, publications, music, social life, student organizations and interest groups, intramural sports and recreational activities, and sports clubs.

**Speech and Debate.** The forensics program (speech and debate team), under the auspices of the Department of Communication Studies, encourages participation of all interested students, both in debate and individual events regardless of major. The forensics squad participates in some 20-25 intercollegiate forensic meets per year on a regional and national basis. Participants may choose to enter debate or individual events. Further information is available at [www.chfa.uni.edu/comstudy/organizations/forensics.asp](http://www.chfa.uni.edu/comstudy/organizations/forensics.asp).

**Fraternities/Sororities.** The Greek community at UNI consists of nationally affiliated (National Interfraternity Council and National Panhellenic Council) social sororities and fraternities, and nationally affiliated (National Pan-Hellenic Council) historically African-American sororities and fraternities. The Greek community has a long, rich tradition of supporting student involvement and development, and providing service, social and leadership opportunities. Formal and informal membership recruitment and intake processes take place each semester. More information is available at [www.uni.edu/studentorgs/greeklife](http://www.uni.edu/studentorgs/greeklife).

**Honor Organizations.** Superior achievement in various academic disciplines and in extracurricular activities is recognized in honor organizations. Information on these organizations may be obtained from the Student Involvement and Activities Office, Maucker Union, or at [www.uni.edu/maucker/siac/](http://www.uni.edu/maucker/siac/).

**Intercollegiate Athletics.** Various intercollegiate sports are available to both men and women at UNI. The university engages in intercollegiate

athletic competition in a total of 18 sports. Men may participate in baseball, basketball, cross country, football, golf, indoor and outdoor track, and wrestling. Women also compete in basketball, cross country, golf, and indoor and outdoor track, as well as in soccer, softball, swimming, tennis, and volleyball.

UNI Athletic teams participate within Division I of the NCAA. UNI Football is part of the Division I Football Championship Subdivision (FCS, formerly 1-AA). The University Athletics Program is a member of the Missouri Valley Conference, the Missouri Valley Football Conference, and the Western Wrestling Conference. All intercollegiate athletic programs are governed and operated in accordance with NCAA, Conference, and university rules and regulations. In some instances, university rules and regulations may be more restrictive than those of the NCAA and/or Conference.

**Interest Organizations.** Numerous organizations sponsored by departments and specialized interest groups provide students the opportunity to become better acquainted with other students and faculty as well as to explore leadership skills and perpetuate interests outside the classroom. Many of the organizations have no membership requirements other than an active interest in the work for which the club exists and regular attendance at the meetings. Information on specific interest organizations can be obtained in the Student Involvement and Activities Office in Maucker Union, or at [www.uni.edu/maucker/siac](http://www.uni.edu/maucker/siac).

**Maucker Union Advisory Board.** The Maucker Union Advisory Board, comprised primarily of students, provides feedback and guidance on all issues related to Maucker Union administration, facilities, and programming. More information is available at [www.uni.edu/maucker/siac](http://www.uni.edu/maucker/siac).

**Music.** Music organizations and ensembles are open to all students by audition. Participation by non-music majors is encouraged. Credit is available to all who participate. Among the groups offered are: Concert Chorale, Chamber Choir, UNI Singers, Women's Chorus, Varsity Men's Glee Club, Basketball Pep Band, Wind Symphony, Panther Marching Band, Symphonic Band, Jazz Bands, University Orchestra, Opera/Music Theatre, plus several instrumental ensembles. For further information go to [www.uni.edu/music](http://www.uni.edu/music).

**Northern Iowa Student Government.** The legislative branch of Student Government at UNI is the Student Senate. The executive members include the president, vice-president, director of administration, director of public relations, and director of diversity and student life. A Supreme Court, which comprises the judicial branch, also exists. The Northern Iowa Student Government promotes cooperation between students and faculty, seeks solutions to student concerns, and represents the entire student body in matters affecting student interests. More information is available at [www.uni.edu/studentorgs/nisg/index.htm](http://www.uni.edu/studentorgs/nisg/index.htm).

**Professional Performing Arts on Campus.** See The Fine and Performing Arts at UNI section on pages 33-36 for more information.

**Religion.** Surrounding the campus are various student religious centers. Information on specific religious organizations may be obtained in the Student Involvement and Activities Office on the plaza-level of Maucker Union.

**Social Life.** The social life at the University of Northern Iowa is flexible, designed to meet the ever-changing interests and needs of the students and university community. Social opportunities include popular and cultural film programs, art exhibits, fine arts productions, live musical entertainment, dances, campus-wide events, speaker programs, forums, and community service projects. Much of the program planning relies heavily on student involvement. Information pertaining to involvement is available through the Student Involvement and Activities Office in Maucker Union, or at [www.uni.edu/maucker/siac](http://www.uni.edu/maucker/siac).

**Station KULT-LP.** Station KULT is the student-managed and -operated radio station of the University of Northern Iowa. The station oper-

ates at 94.5FM and on Channel 5 of the Campus Cable Television System. KULT programming consists of music, UNI sporting events, and news. The studios and offices of KULT are located in the lower level of Maucker Union. For further information go to [www.uni.edu/KULT](http://www.uni.edu/KULT).

**Student Government.** The student government associations include the Northern Iowa Student Government, the Residence Halls Association, the Interfraternity Council, Panhellenic Council, National Panhellenic Council, the Maucker Union Advisory Board, and the individual residence hall senates.

**Student Publications.** *The Northern Iowan* is written, illustrated, and edited by students for campus-wide distribution. This student newspaper is distributed twice a week during the fall and spring and once a week during the summer session.

**Theatre.** Any enrolled student is welcome to audition or volunteer for production responsibilities in the major productions or many student productions produced by Theatre UNI and UNI Lyric Theatre. Seasons typically include classical, modern and contemporary drama, opera, musical comedy, and theatre for youth. The theatre also produces in the summer season. All members of the university community are invited to attend productions in the Strayer-Wood and Bertha Martin Theatres. For additional information visit the Web site [www.uni.edu/theatre](http://www.uni.edu/theatre).

**Wellness and Recreation.** Wellness and Recreation Services, located within the Wellness and Recreation Center, offers campus-wide programs in informal recreation/fitness/aquatic opportunities, intramural sports, instructional activities, as well as various health, wellness, and educational programs. The Wellness and Recreation Center provides: (10) multi-purpose gymnasiums/courts for basketball, volleyball, soccer, and tennis; (6) racquetball/wally ball courts; (8) lighted outdoor tennis courses; a leisure pool with whirlpool and water slide; an eight lane, 25-yard lap pool; (5) aerobics/dance studios; a 38.5-foot climbing wall; the UNI Outdoor Pursuits Center; West Campus Complex with 2 rugby and 2 soccer fields; a free weight room; a spacious fitness area with cardiovascular and strength training equipment; a running track; a wellness resource lab with a relaxation and massage room, self-care and wound-care stations, a wellness library and small computer center; and men's and women's locker and shower facilities. For more information visit the Wellness and Recreation Services Web site at [www.uni.edu/wellrec](http://www.uni.edu/wellrec).

# University Facilities and Educational Services

## University Facilities

### Rod Library

[www.library.uni.edu](http://www.library.uni.edu)

Centrally located on campus, and serving the UNI community through Internet-based collections and programs, Rod Library supports the curricular, informational, and research needs of UNI's students and faculty. Rod Library strives to provide an information-rich academic environment for study, teaching, and scholarship.

Rod Library occupies a modern 238,000 square-foot, four-story building in the heart of campus. The library provides seating for 1,600 library users at study carrels and tables, and has more than 550 additional seating spaces in lounge areas and in group, graduate, and faculty studies. Rod Library also houses the University Archives, a Student Computer Center managed by the university's Information Technology Services, and the School Library Studies program of the Department of Curriculum and Instruction.

The Rod Library building is open 100.5 hours per week during the spring and fall sessions. Summer hours are set according to the requirements of curriculum offered during the various summer sessions. Variations from regular schedules are posted in the main lobby of the library and are published in the *Northern Iowan* and on the library's Web page [www.library.uni.edu](http://www.library.uni.edu). Many Rod Library collections are available via the World Wide Web 24 hours through this Web page.

Library collections include more than one million volumes, 3,300 periodical and newspaper subscriptions, in print and online, 265,000 U.S. paper documents, 300,000 U.S. and Iowa documents on microfiche, and 41,000 flat maps.

Also available to the UNI community is a broad array of full-text electronic databases including ERIC, J-STOR, LEXIS/NEXIS, PROJECT MUSE, and many others. Circulating books and the current and bound journals collections are in open stacks, shelved by the Library of Congress classification system.

Collections and services of special note are:

**Art & Music -**

[www.library.uni.edu/artmusic](http://www.library.uni.edu/artmusic)

**Collection Management -**

[www.library.uni.edu/cms](http://www.library.uni.edu/cms)

**Distance Learning -**

[www.library.uni.edu/distance](http://www.library.uni.edu/distance)

**Documents & Maps -**

[www.library.uni.edu/gov](http://www.library.uni.edu/gov)

**Interlibrary Loan (for materials not held at Rod Library) -**

[www.library.uni.edu/access/ill/illoview.shtml](http://www.library.uni.edu/access/ill/illoview.shtml)

**Library Instruction -**

[www.library.uni.edu/instruction](http://www.library.uni.edu/instruction)

**Reference -**

[www.library.uni.edu/ris](http://www.library.uni.edu/ris)

**Special Collections & University Archives -**

[www.library.uni.edu/speccoll](http://www.library.uni.edu/speccoll)

**UNISTAR: UNI's Online Catalog -**

<http://unistar.uni.edu/search~S1>

**Youth**

[www.library.uni.edu/youth](http://www.library.uni.edu/youth)

## Human Performance Center

Opened in late fall of 2007, the 33,000 sq. ft. Human Performance Center represents a unique public/private partnership between UNI and Cedar Valley Medical Community. Designed to support the academic and public service programs of UNI's School of Health, Physical Educa-



tion and Leisure Services, the center includes classrooms, offices, laboratories and medical office space. The Human Performance Center has two distinct areas—the Sport and Human Performance Center which provides space for UNI's Athletic Training academic program, Cedar Valley Medical Specialists P.C. Department of Orthopedics, Advanced Diagnostic Imaging, Northeast Physical Therapy as well as space for sport medicine and hydrotherapy services and the Davis Center for Healthy Youth Development provides space for Camp Adventure Youth Services, Iowa Center on Health Disparities, Global Health Corps, the R.J. McElroy Professor of Youth Leadership Studies, American Humanics, and the National Program for Playground Safety.

## Maucker Union

The Maucker Union, located east of the UNI Library, serves as an informal meeting place for students, faculty, staff, alumni, and guests of the university. The unique facilities of Maucker Union are useful for a wide range of activities including cultural, recreational, and conference events.

General services include: a campus information center, meeting rooms, a billiards game room, and dining services. The building houses the offices of the campus newspaper, student government, student radio, the Center for Multicultural Education, and other student organization offices.

The Student Involvement and Activities Office of Maucker Union is responsible for the programs which focus on co-curricular development of the student. Leadership development, skills development, support for student organizations/interest groups, Greek life, and programming are central to this office and Maucker Union as a whole.

Social and cultural activities include art exhibits, movies, comedy, forums, and lectures. Maucker Union is financed through fee monies, general education funds, and income-producing services within the building.

More information about Maucker Union and special programs and events can be obtained at [www.uni.edu/maucker](http://www.uni.edu/maucker).

## The Commons

Students, staff, and university guests use the Commons in a variety of ways. Housed within this building are the Georgian Lounge and the

Slife Ballroom. The Georgian Lounge is used for teas, receptions, and other special occasions. The Slife Ballroom is a multi-purpose room used for banquets, dances, lectures, and student activities.

## University Museum

The University Museum, accredited by the American Association of Museums, is used extensively as an educational resource by both university classes and regional schools and as a cultural facility by local organizations and individual visitors. The museum offers permanent and changing exhibits, tours, lectures, and special programs, such as films, presentations, performance, and ethnic meals. Faculty and students can make use of the exhibits and collections through class projects, collection study, research, and internships in a wide variety of academic disciplines.

The collections of the museum embrace four major subject categories: geology, biology, anthropology, and history. The geology collection consists of minerals, rocks, and fossils of worldwide distribution. The biology area includes a bird collection consisting of most birds indigenous to the midwest as well as some exotic, rare, and extinct species. Large and small mammals, reptiles, fish, anthropods, and marine invertebrates, including a vast collection of shells from around the world, are also a part of the biology collection. The history collection contains items related primarily to early Iowa education, the campus, and historical costume. The anthropology section includes prehistoric and ethnographic collections from North America, South America, Africa, Asia, Oceania, and the Middle East.

A public support group known as the Friends of the UNI Museum serves to help the Museum through financial and volunteer support. Membership is open to anyone with the desire to see the museum grow and expand its services.

Located at 3219 Hudson Road, the museum is open, free of charge, daily from 9:00 a.m.- 4:30 p.m. during the school week. It is closed on legal and university holidays. The museum is open on Saturdays from 1:00 p.m.- 4:00 p.m. Although large groups such as clubs and classes are asked to telephone or write the museum for appointments, all other visitors are invited to come without appointments any time the museum is open.

For further information visit our Web site [www.uni.edu/museum](http://www.uni.edu/museum) or call 319-273-2188.

## Marshall Center School

Built in 1893, the Marshall Center School is a symbol of UNI's contribution to Iowa's long record of excellence in education. This historic structure was moved from Pocahontas County in western Iowa to the campus in 1987 to celebrate the early history of the campus as a teachers college. It now serves as a museum telling the story of early Iowa education.

Marshall Center served as a school, community meeting place, township school board meeting room, and voting place from 1893 until 1944. It has been restored and furnished as it would have looked circa 1922 and is one of the most authentic one-room school museums in Iowa. Programs are presented at the school to campus classes, regional elementary school groups, and the general public. Storytelling, reenactments, and presentations help visitors step back in time to visualize a typical day at a rural school.

The school is located at the corner of 23rd and North Minnesota Streets and open Friday and Saturday from 2:00 to 4:00 p.m. Programs for campus groups, classes, and public groups can be scheduled by contacting the University Museum.

For further information visit our Web site [www.uni.edu/museum](http://www.uni.edu/museum) or call 319-273-2188.

## Broadcasting Services

Administratively housed in the College of Humanities and Fine Arts are UNI's two separately programmed public radio stations. KUNI FM serves the Cedar Falls/Waterloo, Cedar Rapids, and Iowa City areas at 90.9 on the dial. KUNI can also be heard at 89.7 and 98.7 in Dubuque, 102.1 and 94.5 in the Quad Cities, 88.9 and 101.7 in Des Moines, and at 91.5 in Mason City and 1010 AM in north central Iowa. KUNI offers listeners news and information programming during the day and contemporary music at night. KHKE FM, at 89.5 on the dial, serves the Cedar Falls/Waterloo metro area with an arts and classical music format. KHKE is also heard at 90.7 in Mason City. KUNI and KHKE are part of Iowa Public Radio which includes the public radio stations of the University of Iowa and Iowa State University. UNI students majoring in Electronic Media in the Department of Communication Studies serve as interns for the two stations.

For further information, visit [www.kuniradio.org](http://www.kuniradio.org) or [www.khke.org](http://www.khke.org).

## University Events Coordination

University Events Coordination offers event management services to university faculty and staff, as well as the general public. This office provides assistance in planning, budgeting, managing and evaluating conferences, seminars and general events to enable the community to use UNI as a valuable resource.

For information call 319-273-6899 or view the information at [www.vpaf.uni.edu/events](http://www.vpaf.uni.edu/events).

## Office of University Marketing & Public Relations

The Office of University Marketing & Public Relations, in concert with the various university constituents, develops and coordinates the implementation of an integrated marketing program. Designed to enhance the visibility and to accurately project the culture of the University of Northern Iowa, the plan reflects and works toward the goals of the university's strategic plan through the use of a variety of communications. Areas of public relations emphasis and thematic approaches in publication and advertising design correspond with and support the mission and select areas of excellence. Priorities are set within these parameters.

A high priority within the Office of University Marketing & Public Relations is media relations, which includes developing internal credibility to assure that information is provided to media accurately and in a timely fashion. Prompt response to media queries and counsel to university officials in crisis situations are of primary importance. The office recognizes that news media are not in the business of promoting the university, and that their dissemination of our information to their readers/viewers on such things as programs, activities, or cultural events is done as a public service.

Of equal importance to the Office of University Marketing & Public Relations is the projection of the institution's image and vision through communications media that are designed with integrity and consistency of central message, and in compliance with institutional identity standards.

Central to the office's efforts is the advancement of the university's three priorities: to be recognized as a leader in undergraduate education, to make UNI the leading academic institution in Iowa for addressing Pre-K through 12 issues, and to provide even greater economic, cultural and social value to Iowa and Iowans.

For more information, visit our Web site [www.uni.edu/pubrel](http://www.uni.edu/pubrel), call 319-273-2761, or fax 319-273-2888.



## The University of Northern Iowa Alumni Association

The UNI Alumni Association offers a full array of programs and services to alumni, students, parents, and friends. Our sole mission is to support and strengthen the University of Northern Iowa.

It is never too early to get involved with your Alumni Association.

There are dozens of opportunities to network, learn and lead. You can learn more at [www.unialum.org](http://www.unialum.org), by stopping by Alumni House (across from University Book and Supply) or calling 1-800-UNI-ALUM.

### Association Scholarships

Each year the Alumni Association awards three scholarships to current UNI students who have shown involvement with campus organizations, events, and activities. Two scholarships are awarded to undergraduate students, including one to a child of an alumnus. The third scholarship is awarded to a UNI graduate student who received their bachelor's degree from UNI.

### Connecting Alumni to Students (CATS)

CATS is a volunteer student organization dedicated to enhancing the University of Northern Iowa as a great place to live and learn; to serve as UNI's official keepers of traditions and represent the university in a positive manner to the various on-and off-campus constituents; and serve as a link between students, administration, and alumni.

Learn more about this nationally recognized student group at [www.unialum.org/cats](http://www.unialum.org/cats).

### Legislative Advocacy

UNITE (UNI Together for Education) is a volunteer grassroots organization of alumni, faculty, staff, students, parents of UNI students and friends who are committed to higher education in Iowa and to the University of Northern Iowa. Our members participate in legislative forums, submit letters to the editor, meet with their local elected officials, and write or email their elected officials to promote UNI.

Learn more at [www.unialum.org/unite](http://www.unialum.org/unite).

### Lux Service Award

The University of Northern Iowa Lux Service Award is presented annually to three undergraduate students who epitomize the ideal of service to the university community.

The honor is conferred in the spirit of keeping the light of service to others burning bright at UNI. The name of the award - Lux - is from the University's official seal that features a burning lamp of knowledge and the Latin word for light.

The University of Northern Iowa Alumni Association sponsors the award.

### Official Class Ring

Custom crafted for the University of Northern Iowa, the motifs for the Official Ring incorporate the university's most cherished traditions and history.

The ring features the UNI Campanile and founding date of 1876 around the crown. The campanile was built in 1926 to commemorate UNI's 50th anniversary. The four bells, which sound on the hour and quarter hour, are dedicated to the president of the university, the school children of Iowa, the faculty, and UNI students and alumni. The inside of the ring is inscribed with the word LUX, Latin for light. The word and map has been a part of the University seal since 1876.

The ring is available for purchase by those who have completed 60 credit hours at UNI. Learn more at [www.uni.alum.org](http://www.uni.alum.org).

### Panther Volunteer Network

The UNI Alumni Association offers many opportunities for students to work with alumni. If you are interested in career guidance, would like to work with alumni in legislative advocacy or in any number of other ways, visit [www.unialum.org/volunteer](http://www.unialum.org/volunteer) or email [info@unialum.org](mailto:info@unialum.org).

### Students Today, Alumni Tomorrow

More than 2,000 UNI students are members of STAT - the student organization that offers discounts at area businesses, invitations to special events and member-only gifts. Learn more at [www.unialum/stat](http://www.unialum/stat).

### UNI Outreach Events

The Alumni Association hosts a variety of campus events to entertain, educate, and connect. Parents and students are welcome to attend any UNI Alumni Association event or program. Celebrate the Power of Purple! Find a complete schedule of events at [www.unialum.org](http://www.unialum.org).

## The University of Northern Iowa Foundation

The University of Northern Iowa Foundation is a non profit corporation formed in 1959 to assist the university in projects which are vital to its growth and development but are most appropriately financed from private funds. Many accounts within the foundation have been established as memorial funds for members of the faculty, staff, or alumni. Through its annual giving program, the foundation provides alumni and friends of the university an opportunity to assist in extending the usefulness of the university, providing that margin of excellence which is characteristic of a quality university. As an additional service for alumni and friends, the foundation staff assists in estate planning.

The foundation is the official channel through which *private* gifts are given for the benefit of the University of Northern Iowa. Individuals and organizations are assured of continuity of management of such funds and of their being used for the intended purposes of the donor. As a charitable organization, all gifts to the foundation are tax deductible.

Gifts or questions should be addressed to:

UNI Foundation  
University of Northern Iowa  
Cedar Falls, IA 50614 0282  
319-273 6078 or 1-800-782 9522  
[www.uni.foundation.org](http://www.uni.foundation.org)

## Educational Services

### Academic Learning Center

007-008 Innovative Teaching & Technology Center (ITT)  
273-6023  
[www.uni.edu/unialc/](http://www.uni.edu/unialc/)

### Academic Achievement and Retention Services

007 ITT, 273-6023  
[www.uni.edu/unialc/aars.html](http://www.uni.edu/unialc/aars.html)

Academic Achievement and Retention Services inspires students to achieve academic success and empowers them to develop their personal and professional strengths. Services include:

- Personalized advising services regarding academic planning, career/graduate school exploration, and financial resources.
- Individual and group tutoring for selected courses.
- Workshops regarding study skills, finances, careers, and graduate school.
- Strategies for Academic Success, a two-credit course.
- Collaboration with other campus offices in delivering orientation, transition, and mentoring programs (e.g., Jump Start, Gaining Panther Support Mentoring Program).

### Athletics Academic Services

008 ITT, 273-2361

[www.uni.edu/unialc/athletics.html](http://www.uni.edu/unialc/athletics.html)

An athletics academic advisor is available to assist student athletes with registration, scheduling, exploration/declaration of major, tutoring referrals, and life-skills workshops.

### Examination and Evaluation Services

007 ITT, 273-6023

[www.uni.edu/unialc/examinations.html](http://www.uni.edu/unialc/examinations.html)

UNI offers credit by examination, certification examinations, and most major national college and professional school entrance examinations. Services are provided to enrolled graduate and undergraduate students, non-UNI students, and non-students. In addition to test administration, Examination and Evaluation Services provides test registration and preparation assistance, consultation, and interpretation.

### Student Support Services

007 ITT, 273-2179

[www.uni.edu/unialc/](http://www.uni.edu/unialc/)

Student Support Services is a federally funded TRIO program designed to increase the retention and graduation rates of eligible UNI students. The following services are offered to students who meet federal eligibility requirements:

- Academic advising and counseling
- Personal and career advising
- Instructional and tutorial support
- Assistance with course selection and registration
- Monitoring of academic progress
- Long-range educational planning
- Cultural and educational activities

### Math Center

008 ITT, 273-2361

[www.uni.edu/unialc/math.html](http://www.uni.edu/unialc/math.html)

Free, supportive tutoring for Liberal Arts Core math and related courses. No appointment necessary. Telephone or check Web site for open hours.

- One-on-one and small-group instruction
- Problem-solving techniques
- Review of math concepts

### Reading and Learning Center

008 ITT, 273-2361

[www.uni.edu/unialc/rindex.html](http://www.uni.edu/unialc/rindex.html)

Learning skills that were adequate for high school and community college course work may not be sophisticated enough for university-level studies at UNI.

**Free, four-week, no-credit courses - register online or in person.**

<b>Speed Reading</b>	on average, students double to triple reading efficiency in this four-week course
<b>Effective Study Strategies</b>	develop new notetaking, text-reading, and test-preparation strategies
<b>PPST-Reading and -Math</b>	prepare for the exam required for admission to the Teacher Education Program
<b>GRE-Verbal and -Quantitative</b>	review and practice for the Graduate Record Exam, required by many graduate programs

### Ask-a-Tutor

Free tutoring is available for many Liberal Arts Core courses and some major and elective courses. Check the Web site for courses covered, and call 273-2361 for an appointment.

### Reading comprehension and learning concerns

Telephone 273-2361 and ask for an appointment with Dr. Karen Agee, Reading and Learning Coordinator.

### Writing Center

008 ITT, 273-2361

[www.uni.edu/unialc/](http://www.uni.edu/unialc/)

Make an appointment to receive free, one-on-one assistance 8:00 a.m. - 5:00 p.m., Monday through Friday. Trained, certified writing assistants and students work together to:

- break writer's block and get projects started
- identify problems with focus, development, organization, clarity, and grammar
- plan strategies for improving rough drafts and overall writing skill
- prepare for PPST, GRE, MCAT and other standardized essay exams

### Information Technology Services

[www.uni.edu/its](http://www.uni.edu/its)

ITS is responsible for all aspects of information technology support for academic, administrative, and research functions, including the campus-wide data and voice networks, software systems in both mainframe and mid-range server environments, e-learning systems, and e-learning course development tools. ITS is comprised of four departments: Educational Technology, User Services, Information Systems, and Network Services.

The **Educational Technology (ITS-ET)** staff support the use of technology in teaching and learning. ET works with departments in designing and equipping multimedia classrooms and provides instruction on the use of educational technology equipment. ET Video/Audio Services supports program design and production from either a studio or on-site location. ITS-ET engineers and maintains the campus cable TV system and programs educational access channels for the cities of Cedar Falls and Waterloo, Iowa.

The Technology 'n' Training division of ITS-Educational Technology provides free computer workshops for the UNI community along with a number of specialized seminars and institutes. Consulting and instructional design and development services are provided for faculty.

The ITS-ET Production House is a multimedia production facility that is open to faculty, staff, and students. The Production House can create a media project for you or you can use our self-service facility and do it yourself. The Digital Design division of the Production House provides services ranging from digital graphics to complex design of Web pages and digital schemas.

The ITS-ET Studios for Innovative Teaching are three flexible, interactive technology classrooms equipped with a variety of multimedia technologies. These rooms host a variety of workshops and seminars, and are available for faculty use for experimenting with one-to-one computing and multimedia instruction.

The University's learning management system and various e-learning components are supported by the ITS-ET staff. ITS-ET also supports the Iowa Educational Technology and Training Institute (IETTI), that reaches out to support various PK-12 needs in the state of Iowa.

**User Services (ITS-US)** unit provides the central university help center (the Computer Consulting Center - CCC) that is operated by both trained permanent staff and student consultants. It is the point of contact for students, faculty, staff and emeritus on computer related activities or problems. ITS-US provides web-based computing information and help including electronic documentation and resources as well as facilitating

## University Facilities and Educational Services

various personal computer hardware (Dell, Gateway, Apple, etc.) and software purchasing programs (Microsoft, SAS, etc.).

User Services operates and maintains seventeen public Student Computer Centers (SCCs) on campus. The SCCs provide convenient computing and network access for students, faculty and staff in various facilities. These facilities are located throughout campus with several centers open 24 hours per day. Each center offers a variety of software applications, access to UNI's e-mail system and the Internet as well as laser printing.

The **Information Systems (ITS-IS)** unit provides a complete set of services to meet the university-wide needs for administrative computer applications. These services include coordination of the design, development or acquisition, and improvement of university-wide enterprise administrative computer systems applications using standard tools and processes that emphasize quality and reliability. The core systems include:

- Student Information System (SIS), which facilitates admission, financial aid, enrollment, advising, housing, and maintenance of student records.
- Financial Information System (MEMFIS), which facilitates management of university finances, human resources, and payroll.
- Data Repository, which consolidates information from many university databases in a form that is accessible for faculty and staff to use with a variety of reporting and analysis tools.
- University Portal (MyUNiverse.uni.edu), which provides personalized access to a multitude of applications and services for students, faculty, and staff.

ITS-IS partners with university business offices, including Admissions and Financial Aid, the Registrar's Office, Business Operations and Financial Reporting, Human Resources, Payroll, etc., to ensure that our systems meet UNI's business requirements. Our overall goal is to provide systems that enable smooth, seamless administrative support for the teaching, learning, and research efforts of the university.

ITS-IS also provides email services to the university using Oracle's Collaboration Suite (Collab). Collab provides email to campus users through the use of popular desktop clients such as Thunderbird and Outlook and with two full featured web clients (WebAccess, WebMail).

ITS-IS provides centralized identity management and authentication services for the university community. This CatID authentication system provides the capability for end-users to use the same username and password across many applications

The **Network Services (ITS-NS)** unit provides design, operations and management of core voice and data services for the university community. This includes: on and off-campus voice services; campus networking including ResNet and wireless access; Internet and off-campus connectivity; inter and intra-building communications infrastructure; operations of central administrative systems; system administration and management of a variety of academic and administrative central resources and systems.

## Instructional Resources and Technology Services

[www.uni.edu/coe/irtsweb](http://www.uni.edu/coe/irtsweb)

Instructional Resources and Technology Services, within the College of Education, provides services and resources for teacher education students and faculty. Many of the services are also available for N/K-12 grade teachers and administrators. IRTS offers resources and technological services for the pursuit of curriculum and instructional development. All resources are cataloged and accessible via a UNISTAR search of the IRTS collection.

The mission of Instructional Resource and Technology Services is to provide students, faculty and in-service teachers/administrators with

laboratories in which to examine and evaluate new curriculum resources. Resources include textbooks, professional materials, computer software, Macintosh and Windows computers, and multimedia systems. All College of Education computer laboratories are instructional labs and are available on a walk-in basis when classes are not in session. The Macintosh computer labs have software collections consisting of numerous N/K-12 grade educational software programs. Each lab has a projector for displaying images from the instructor station as well as a document camera. All computers include standard productivity tools including spreadsheets, database management, and word processing.

Visit this Web site for more detailed information about these computer labs: [www.uni.edu/coe/irtsweb/services/labs.shtml](http://www.uni.edu/coe/irtsweb/services/labs.shtml).

SEC 206 (within SEC 222): Macintosh lab with 20 student stations

SEC 123a (within ITS lab): Windows lab with 18 student stations

SEC 127-128 Technology Methods Lab: Macintosh lab with 30 student stations

WRC 154: Windows laptop lab with 30 student stations

## Educational Opportunity Programs and Special Community Services (EOP/SCS)

The University of Northern Iowa places a high priority on providing quality education to financially disadvantaged and minority students. To fulfill this commitment for all students, the university has established the Office of Educational Opportunity Programs and Special Community Services.

The Educational Opportunity Programs (EOP) are designed and coordinated specifically to meet our students' educational, social, and financial needs. A primary goal for the EOP staff is to provide supportive services to all project students, thus enhancing the successful completion of the student's college career.

The Educational Opportunity Programs and Special Community Services structure includes the following working components:

The **Educational Opportunity Center** is an academic counseling program which promotes postsecondary education in communities with large populations of low-income, first-generation adults who are often unaware of educational and career opportunities.

Professional career and education counselors assist eligible adults with selecting a postsecondary institution or training program suited to their interests. Counselors assist clients with the completion of admission and financial aid applications, scholarship searches, and defaulted student loans, as well as provide academic development workshops (study skills, test taking, college writing, and basic reading and math skills), and academic advising.

All services are free to eligible participants who are age 19 or older and do not have a four-year degree.

The **Educational Talent Search Program** is an educational counseling service designed to assist 1,300 students to continue in and graduate from high school and enroll in an educational program beyond high school, and also to assist high school and college dropouts to return to an educational program.

Assistance is provided through counseling regarding the variety of opportunities for further schooling, information regarding admission and financial aid application processes, advice on career choices and appropriate postsecondary institutions, college tutors, workshops, and tutoring. Students in 6th grade through age 18 are eligible to participate in the program.

The **McNair Scholars Program (Ronald E. McNair Post-baccalaureate Achievement Program)** is designed to encourage low-income and first-generation undergraduate students, especially minorities, to consider careers in college teaching as well as to complete advanced degrees through effective preparation for doctoral study. Students who participate in the program are provided with academic enrichment pro-

grams that provide tutoring, academic counseling, summer internships, financial aid and admissions assistance, research opportunities, and a faculty-directed mentoring program.

The **Department of Military Science** administers the Army Reserve Officers' Training Corps (ROTC) program at the University of Northern Iowa. Credits earned in the department count as general elective credits toward baccalaureate degree requirements or a minor in Military Science. All instructors in the department are career U.S. Army Officers. The course of instruction is designed to be a four-year program. Students with prior military experience may be allowed to complete the program in two years. Students who desire to receive a commission as an officer in the U.S. Army will be required to contract with the Department of the Army during the final two years of the course. All contracted cadets will receive a monthly stipend and will incur a service obligation upon graduation.

**Student Support Services** is a federally funded TRIO program designed to increase the retention and graduation rates of eligible UNI students. The following services are offered to students who meet federal eligibility requirements:

- academic advising and counseling
- personal and career advising
- instructional and tutorial support
- assistance with course selection and registration
- monitoring of academic progress
- long-range educational planning
- cultural and educational activities

The **Center for Urban Education (UNI-CUE)**, located in the heart of the urban area of Waterloo, Iowa, is the university's community connection. As one of the components of the university's Educational Opportunity Program and Special Community Services (EOP/SCS), it represents the university's strong commitment to cultural diversity.

UNI-CUE's mission is to provide a positive environment for lifetime learning. Individuals may pursue and continue their educational goals and prepare for careers. UNI-CUE staff collaborates with other campus departments and community programs to match the center's resources with community needs. UNI-CUE fully embraces the concept of continuing and part-time education.

The UNI-CUE facility houses a variety of TRIO programs and university courses for credit through continuing education. Meeting the challenge of providing educational opportunities for people of all ages and races in a comfortable and confident learning situation, the center focuses on community needs. The various programs available benefit both the participants and university students who want to pursue selected educational experiences in an urban environment.

The many opportunities provided by UNI-CUE's wide scope of programs show that UNI-CUE is maintaining and enhancing the university's commitment to life-long learning.

**Classic Upward Bound** is a college preparatory program designed to empower program participants with the academic skills and motivation necessary for success in high school and ultimately college.

The program serves students from low-income first-generation families who demonstrate potential for college as measured by standardized tests, high school grades, and written recommendations from a school administrator, counselor, or teacher.

The Classic Upward Bound Program has two components: the academic year program and the summer enrichment program. During the academic year, the Classic Upward Bound Program serves 75 students. This component focuses around the after-school Supplemental Instructional/Tutorials program in which students receive academic support services in their respective high schools. The academic year program also includes academic advising and counseling, career exploration, college tours, study skill development workshops, leadership conferences, and

other activities.

During the summer component, the Classic Upward Bound Program serves 60 students. These students spend six weeks during the summer living in dorms housed on the UNI campus. Students attend enrichment courses in mathematics (algebra, pre-calculus), English (literature and composition), science (biology, physics), foreign language (Spanish, French), economics, and computer science. In addition to their course work, students participate in cultural enrichment activities.

After a Classic Upward Bound student successfully graduates from high school, the graduate is enrolled in college classes in UNI's summer session. All of these courses are transferable to the college or university that the student will attend in the fall. Participants are housed in dormitories with other UNI college students during the summer.

The Classic Upward Bound Program accepts applications from students who have completed eighth grade or are currently enrolled in ninth, tenth, or eleventh grades in a Waterloo or Cedar Falls school. Interested parents or students may receive applications by stopping by the office at 800 Sycamore Street, Waterloo. Parents or students may also obtain information by calling the Classic Upward Bound Program at 319-234-6819 or from their high school guidance office.

**Upward Bound Math & Science (UBMS)** is an academic enrichment program for high school students with an emphasis on math and science. The UBMS Center encourages these students to enroll in a college or university and major in math and science. It has two components: the academic-year program and the summer program.

During the academic-year component, participants design, create, and implement a math or science project each semester with assistance from their mentor. The UBMS Center requires that participants select a mentor from their community who has a college degree and works in a math or science-related career. The students are required to meet with their selected mentor regularly. Students may participate in the program until graduation from high school.

During the summer component, students participate in a supervised six-week residential program on the UNI campus. The purpose of the summer session is to introduce students to the world of math and science through a non-traditional, experiential learning method in which the major components of the math and science curriculum are laboratory based. The aim is to continue to spark students' interest and give them laboratory skills they may not experience in their high school courses. Students are required to take biology, chemistry, earth science, physics, integrated mathematics, computer programming, technical writing and/or Spanish. In addition to classes, students are engaged in educational field trips and guest speakers from various math and science careers. Students also have opportunities to participate in a wide range of recreational activities.

The Upward Bound Math & Science experience allows students to grow both educationally and personally. Participants are afforded an opportunity to live and study in a safe university environment over the summer. This allows participants to: 1) become better acquainted with a university, students, faculty, and facilities; 2) meet high school students with similar interests; 3) take advantage of educational opportunities that may not be available at their local high schools; and 4) be exposed to current technological trends in mathematics, sciences, computer science, and career opportunities while exploring opportunities for college.

The Upward Bound Math & Science Center accepts applications from students from Iowa in ninth or tenth grades who are interested in math and science. Interested parents or students may receive applications by stopping by the office at 800 Sycamore Street, Waterloo. Parents or students may also obtain information by calling the Upward Bound Math & Science Program at 319-234-6819 or from their high school guidance office.

## University Facilities and Educational Services

Inquiries regarding specific Educational Opportunity Programs and Special Community Services should be made to one of the following:

### **Educational Opportunity Programs & Special Community Services**

University of Northern Iowa  
Room 1, Seerley Hall  
Cedar Falls, IA 50614-0707  
[www.uni.edu/eop/](http://www.uni.edu/eop/)

### **Educational Opportunity Center**

800 Sycamore Street  
Waterloo, IA 50703  
319-234-6819 fax 319-232-5039  
[www.uni.edu/eop/eoc/index.htm](http://www.uni.edu/eop/eoc/index.htm)

### **Educational Talent Search**

800 Sycamore Street  
Waterloo, IA 50703  
319-234-6819 fax 319-232-5039  
[www.uni.edu/eop/ets/](http://www.uni.edu/eop/ets/)

### **McNair Scholars Program**

007 Integrated Teaching and Technology Center (ITT), UNI  
Cedar Falls, IA 50614-0388  
319-273-2284 fax 319-232-5039  
[www.uni.edu/eop/mcnair/index.htm](http://www.uni.edu/eop/mcnair/index.htm)

### **Student Support Services**

007 Integrated Teaching and Technology Center (ITT), UNI  
Cedar Falls, IA 50614-0387  
319-273-2179 fax 319-273-2982  
[www.uni.edu/unialc](http://www.uni.edu/unialc)

### **University of Northern Iowa Center for Urban Education (UNI-CUE)**

800 Sycamore Street  
Waterloo, IA 50703  
319-234-6819 fax 319-232-5039  
[www.uni.edu/eop/unicue/index.htm](http://www.uni.edu/eop/unicue/index.htm)

### **Classic Upward Bound**

800 Sycamore Street  
Waterloo, IA 50703  
319-234-6819 fax 319-232-5039  
[www.uni.edu/eop/cub/index.htm](http://www.uni.edu/eop/cub/index.htm)

### **Upward Bound Math & Science**

800 Sycamore Street  
Waterloo, IA 50703  
319-234-6819 fax 319-232-5039  
[www.uni.edu/eop/ubms/index.htm](http://www.uni.edu/eop/ubms/index.htm)

### **Military Science**

203 West Gym, UNI  
Cedar Falls, IA 50614-0142  
319-273-6178 fax 319-273-6929  
[www.uni.edu/rotc](http://www.uni.edu/rotc)

## **Price Laboratory School**

Price Laboratory School is a research, development, and dissemination school in the College of Education at the University of Northern Iowa (UNI). Located on the UNI campus, Price Laboratory School provides field experiences for teacher education students in the art and science of teaching. PLS also serves as a laboratory for other professional education programs of the university. The school provides an educational program for a diverse student body in pre-kindergarten through grade twelve, including special education.

In addition to its role as a teacher education laboratory, the laboratory school is widely recognized for its innovative and experimental school programming. PLS is strongly committed to professional service that includes participating in professional conferences, workshops, and

publications. The laboratory school proudly welcomes collaboration with professional colleagues. Information about Malcolm Price Laboratory School programs is available on the PLS Web site at [www.pls.uni.edu](http://www.pls.uni.edu) or at 319-273-6136.

## **The Roy Eblen Speech and Hearing Clinic**

This clinic offers speech and hearing services both to university students and others outside the university community. These clinical services form an integral part of the program of professional preparation in speech-language pathology. Majors in communicative disorders and speech-language pathology carry out clinical services under the supervision of the faculty and instructional staff in the Department of Communication Sciences and Disorders. Services offered include audiological evaluations, speech and language evaluations, and remediation for individuals of all ages with speech, language, and hearing problems.

For more information on the clinic call 319-273-2542 or visit [www.uni.edu/comdis/clinic.html](http://www.uni.edu/comdis/clinic.html).

## **UNI Child Development Center**

[www.uni.edu/cdc](http://www.uni.edu/cdc)

The UNI Child Development Center (CDC) is an accredited non-profit child care and early learning facility designed to meet the needs of young children by providing quality programming within a safe and nurturing environment. The CDC provides high quality, full-time child-care for the children of faculty, staff, and students of the University of Northern Iowa.

The CDC serves as an educational laboratory for UNI students majoring in Early Childhood Education and other related fields, facilitating the students' learning about young children. Inclusionary special education services are integrated within all of our classrooms and serve identified students who need an individualized education program. When a child is enrolled with special needs, staff are oriented in understanding that child's special needs and ways of working with the child in the group setting. Certified teachers, assisted by university students, provide instruction in the multi-age classrooms. The CDC goals include providing an innovative curriculum based on current research, developing of teacher education curriculum, and modeling developmentally appropriate evaluation processes.

The CDC is located on the lower level and first floor of the Price Laboratory School. The CDC is licensed to serve 110 students, including 85 children in the 6-classroom day program and 25 children in the After School Program. The Center operates on the university calendar, offering programming during the academic year and summer sessions. An evening childcare program is funded through a U.S. Department of Education grant. The program is provided from 5:30-9:30 p.m., Monday through Thursday evenings during the academic year only. Childcare for up to twenty children is provided on a sliding fee basis: for Pell-qualified student parents the child care is free; for other students/faculty/staff, the cost is \$1.50 and up per hour.

For more information on the programs offered, or to learn how to register your child, call the CDC at 319-273-3946. Or you may visit the CDC office located in Price Laboratory School, 1901 Campus Street, Cedar Falls.

# The Fine and Performing Arts at UNI

## Facilities



### Department of Art

[www.uni.edu/artdept/](http://www.uni.edu/artdept/)

### Kamerick Art Building

The Kamerick Art Building, which houses the Department of Art and the UNI Gallery of Art, was completed in 1985. The design of the building is based on an elegant modular plan and has won several architectural awards. The 67,000 square foot interior is divided into studios, classrooms, a lecture hall, art store, visual resource center and offices. There is a state of the art computer lab and each studio area is well equipped with specialized tools for almost every artistic medium. The building has a beautiful courtyard adjacent to a striking glass atrium and serves as an anchor to the main east-west campus promenade. Designed in consultation with the foremost experts on health safety in the arts, Kamerick Art Building provides spaces that are beautiful, functional, and safe.

### UNI Art Gallery and UNI Permanent Art Collection

[www.uni.edu/artdept/gallery/](http://www.uni.edu/artdept/gallery/)

The UNI Gallery of Art is an important component of the UNI Department of Art and a cultural resource for the campus and the Cedar Valley. Each year the UNI Gallery of Art brings innovative artists, exciting lectures and the most outstanding and challenging works of art to campus.

With a season of nine major exhibitions and numerous other cultural events, the UNI Gallery of Art presents the most engaging issues and most innovative techniques in contemporary art. Groundbreaking interdisciplinary programming is enhanced through strong links to community arts organizations and academic departments across campus.

The UNI Gallery of Art also provides educational opportunities for students interested in careers in arts administration. Through the university's Work Study and Career Scholars Program, as well as volunteer opportunities, students gain valuable experience in museum and gallery management.

The Gallery houses the majority of works in the UNI Permanent Art Collection. Among the nearly 3,000 objects in the Collection are pieces by prominent artists such as Josef Albers, Romare Bearden, Phyllis Bramson, George Grosz, Philip Guston, Pablo Picasso, Jaune Quick-To-See Smith and Jerry Uelsmann.

The UNI Permanent Art Collection is complemented by numerous pieces of public art across campus. Among the projects funded by the Iowa Art in Public Buildings Program are works by Dennis Oppenheim, Fletcher Benton, Gary Kelly and Walter Dusenbery.

### Computer Lab

The Computer Lab is located on the second floor of Kamerick Art Building, adjacent to the graphic design studios. Students and faculty in the Department of Art have access to an impressive array of state of the art equipment and software for working with typography and layout, digital photography, animation and video editing.

### Art Store

The Department of Art has a supply store on the first floor of the Kamerick Art building. Students can easily and conveniently purchase most of the supplies they will need for studio classes.

### Department of Communication Studies

[www.chfa.uni.edu/comstudy](http://www.chfa.uni.edu/comstudy)

### Lang Hall

UNI Interpreters Theatre serves as both a teaching studio for performance studies classes and as a performance/rehearsal space for public performances. The 100-seat flexible black-box style studio is equipped with full light and sound support.

### School of Health, Physical Education and Leisure Services

[www.uni.edu/coe/hpels/About\\_HPELS/facilities\\_locations.shtml](http://www.uni.edu/coe/hpels/About_HPELS/facilities_locations.shtml)

The nationally award winning Wellness/Recreation Center houses the School of Health, Physical Education & Leisure Services and is the home of the dance program. Opened in 1997 the building includes the dance studio, additional movement spaces, seminar rooms and classrooms, research labs and faculty and administrative offices necessary for dance classes, dance rehearsals and the dance curricula. Additional facilities used for performances include Lang Hall, Russell Hall, Gallagher-Bluedorn Performing Arts Center on campus and the Oster-Regent Theatre in downtown Cedar Falls.

### School of Music

#### Russell Hall

[www.uni.edu/music](http://www.uni.edu/music)

Russell Hall has been the home of the School of Music since 1962. The building contains a 400-seat auditorium, jazz and chamber music rehearsal halls, recording facilities, a music technology lab, a music education classroom, office space for music faculty and staff, and over 35 practice rooms. In spring of 2000, the School of Music expanded into the Gallagher-Bluedorn Performing Arts Center, creating additional space for School of Music students, faculty, ensembles, and concert events. For more information go to [www.uni.edu/music](http://www.uni.edu/music).

### Department of Theatre

[www.uni.edu/theatre](http://www.uni.edu/theatre)

### The Strayer-Wood Theatre

Constructed in 1978, the Strayer-Wood Theatre was the first theatre built in Iowa with public funds, acknowledging the state's responsibility to serve the campus and the community through the arts. The building features two fully-equipped theatre spaces: a 500-seat convertible thrust/

## The Fine and Performing Arts at UNI

proscenium theatre and a black box (see The Bertha Martin Theatre below) as well as support spaces, an alternative performance space, classrooms, and offices for the Department of Theatre and Theatre UNI. The university's student-performed plays, musicals, and operas occur in the Strayer-Wood.

### The Bertha Martin Theatre

A part of the Strayer-Wood complex, the Bertha Martin Theatre is a 125-seat flexible black-box style theatre with full light and sound support. Used primarily for public performances of plays and musicals, the theatre is also in heavy use as a rehearsal and training space for theatre classes. It was equipped and partially funded with a bequest from the students of Bertha Martin, the founder of the theatre program at the university.

### Gallagher-Bluedorn Performing Arts Center

[www.gbpac.com](http://www.gbpac.com)

The \$23 million, 100,000 square foot complex, containing three state-of-the-art concert halls, seating 1600, 300, and 125 respectively, opened in April 2000 and is home to UNI School of Music, the Waterloo-Cedar Falls Symphony, and visiting artist series.

## Programs

### Department of Art

[www.uni.edu/artdept/](http://www.uni.edu/artdept/)

**Visiting Lecturers Series.** Each year the Department of Art hosts a number of prominent artists, designers, art educators, art historians, and critics who present public lectures and teach studio workshops. Students have the opportunity to meet and exchange ideas with many art world luminaries as they learn about career opportunities, contemporary trends, and critical issues within the fields of art, design and art education.

**Student Exhibition Opportunities.** Art students are encouraged to exhibit their work in a variety of gallery spaces. The UNI Gallery of Art hosts the Annual Juried Student Art Exhibition each spring as well as Vertigo A-Go-Go, a yearly evening of student performance art. Students also mount exhibitions in the Dean's Triangle, located in the Communication Arts Center and the student-run In-Use Gallery on the second floor of the Kamerick Art Building.

### Department of Communication Studies

[www.chfa.uni.edu/comstudy](http://www.chfa.uni.edu/comstudy)

**UNI Interpreters Theatre** is a co-curricular program in the Department of Communication Studies that involves students from across campus. In this performance group, small-scale productions based on social and cultural issues, oral histories, and traditional performances of literature are created and performed. Some of the subjects covered in the past include eating disorders, children's literature, rural farm families, and romance readers. Students do not need to have prior performance experience to participate. For further information, contact Dr. Karen Mitchell in the Department of Communication Studies at 319-273-2640.

### School of Health, Physical Education and Leisure Services

[www.uni.edu/coe/hpels/](http://www.uni.edu/coe/hpels/)

A Dance Education emphasis in the Movement and Exercise Science major (39 credits) and a Dance Minor (23 credits) are offered through the School of Health, Physical Education and Leisure Services. Course work includes dance theory and dance technique classes, movement theory classes and university-wide liberal arts core classes.



### School of Music

[www.uni.edu/music/](http://www.uni.edu/music/)

**Undergraduate Programs.** The School of Music at UNI enrolls approximately 300 students in various degree programs. These students participate in a wide array of course offerings including music education, music theory, music history, performing ensembles, and applied lessons. Undergraduate course programs include the core curriculum (Liberal Arts Core) plus courses specific to the selected major in music. These degree programs range from 121-149 credit hours for completion. Majors in Music: Bachelor of Arts; Bachelor of Music in Performance; Bachelor of Music in Composition-Theory; Bachelor of Music in Music Education (Choral/General Emphasis); Bachelor of Music in Music Education (Instrumental Emphasis); Bachelor of Music in Music Education (Jazz Emphasis). Minors in Music: Music; Jazz Studies.

**Graduate Programs.** The UNI School of Music awards graduate degrees (Master of Arts and Master of Music) with seven areas of concentration. Each degree requires a minimum of 30 semester hours in graduate-level courses for degree completion. Majors in Music: Master of Arts; Master of Music in Performance; Master of Music in Composition-Theory; Master of Music in Music Education (on-campus program); Master of Music in Music Education (off-campus program); Master of Music in Music History; Master of Music in Conducting; Master of Music in Jazz Pedagogy; Master of Music in Piano Performance and Pedagogy; and Artist Diploma I and II program certificates.

### Department of Theatre

[www.uni.edu/theatre](http://www.uni.edu/theatre)

In addition to a full curriculum of theatre classes, the Department of Theatre offers a full range of productions throughout the year. It normally produces drama, musicals, opera, theatre for young audiences, and original or experimental work.

**Theatre UNI.** The production arm of the Department of Theatre, Theatre UNI produces a fully mounted 4-6 show season of work featur-



ing student performers and technicians in the Strayer-Wood Theatre.

**UNI Lyric Theatre.** A collaborative endeavor of the Department of Theatre and School of Music, UNI Lyric Theatre presents an opera or major musical production performed and built by students each year in the Strayer-Wood Theatre.

**Sturgis Youth Theatre.** This program seeks to provide theatre education classes to and in the community and produce high quality theatre by and for young audiences off-campus.

## **Gallagher-Bluedorn Performing Arts Center** **www.gbpac.com**

**Artists Series.** Over 30 internationally-acclaimed artists are presented each season in UNI's Gallagher-Bluedorn Performing Arts Center. From Broadway to baroque to the blues, the center hosts performances as well as educational residencies, allowing UNI students to interact with world stars.

## **Student Participation and Organizations in the Arts**

### **Department of Art** **www.uni.edu/artdept/**

There are many ways for students to be involved in the campus arts scene at UNI. Lectures and exhibitions in the UNI Gallery of Art are free and open to the public. Students can serve on university committees such as the Art & Architecture Committee which commissions and purchases public art work for the Iowa Art in State Buildings Program. Students are also a part of the Exhibitions & Permanent Collection Committee within the Department of Art. This committee reviews potential exhibitions for the UNI Gallery of Art and selects pieces to be added to the UNI Permanent Art Collection.

**Art Official.** All students are invited to join Art Official, the UNI student art organization. Each year, Art Official organizes a number of engaging activities that encourage participants to live creatively. Art Official plans trips to regional galleries and museums and sponsors other events such as the annual Halloween dance and costume contest.

**SAEA.** The Student Art Education Association allows Art Education majors in the Department of Art to interact with the Art Education faculty, the Iowa Art Education Association, and the National Art Education Association. SAEA sponsors numerous events related to art education and encourages networking between students and professional teachers working in the field.

### **Department of Communication Studies** **www.chfa.uni.edu/comstudy**

**UNI Performance Studies Program.** All university students and staff are invited to attend public performances in the UNI Interpreters Theatre, free of charge. Participation in productions is open to all UNI students and community members. Auditions are held at various times throughout the academic year. Those interested in non-performance participation are also needed for technical support. For further information, contact Dr. Karen Mitchell in the Department of Communication Studies at 319-273-2640.

### **School of Health, Physical Education and Leisure Services** **www.uni.edu/dance**

Dance classes and the dance performing groups are housed in the School of Health, Physical Education and Leisure Services. Students receive academic credit for participating in the performing groups.

**International Dance Theatre.** This dance company is the student-

based performing group of the UNI Folk and Ballroom Dancers. It performs a varied repertoire of multicultural and ballroom dances from around the world, including the United States. It is open to all interested UNI students, faculty and staff and is governed by elected student officers. The company presents two formal stage concerts a year. In addition, it presents numerous road shows and mini-concerts each year. The group is also available for school residencies which can include assembly performances as well as workshops for multicultural dance for all grade levels.

**Orchesis Dance Company.** This dance company is comprised of students interested in pursuing the choreography, performance, and production of ballet, jazz, modern, and tap styles of dance. Members are selected through auditions held toward the end of fall and spring semesters. It is governed by elected student officers. Orchesis presents two formal stage concerts a year. The company is also available for performances, clinics, and classes for the community.

**Young Peoples Dance Theatre.** This group is a before and after school dance program offered to second through fifth grade boys and girls in local schools. It provides a variety of dance forms with an emphasis on creative movement throughout the year plus international folk dance during the Fall session and an exposure to ballet, jazz and tap dance during the spring session. UNI students serve as instructors.

### **School of Music** **www.uni.edu/music**

Many music organizations and ensembles are open to all students by audition or application. Participation by non-music majors is encouraged. Credit is available to all who participate. Among the groups offered are: VOCAL - Chamber Choir, Concert Chorale, UNI Lyric Theatre, UNI Singers, Varsity Men's Glee Club, and Women's Chorus; INSTRUMENTAL - Chamber Orchestra, Jazz Bands I, II, III, Panther Marching Band, Symphonic Band, Symphony Orchestra, and Wind Symphony; SPECIALTY GROUPS - Chamber Winds, Horn Choir, Jazz Combos, Northern Iowa Flute Choir, Percussion Ensemble, String Chamber Music, UNITUBA Ensemble, and West African Drum Ensemble. For additional information visit [www.uni.edu/music](http://www.uni.edu/music).

### **Department of Theatre** **www.uni.edu/theatre**

All university students and staff are invited to attend the productions in the Strayer-Wood and Bertha Martin Theatres. Tickets are free for UNI students. Theatre productions are often used in university classes as experiential learning opportunities.



## The Fine and Performing Arts at UNI

All productions of Theatre UNI and UNI Lyric Theatre are open to participation by any enrolled UNI student. Auditions are held early in the semester or at times publicized on the theatre Web site ([www.uni.edu/theatre](http://www.uni.edu/theatre)) and in the campus press. Students interested in non-performance participation can make a contribution in scenery and properties construction, costume and wardrobe, makeup and hair, lights and audio production, front of house, and stage management by contacting the theatre office 319-273-6386 or the production's director.

**UNISTA.** The UNI Student Theatre Association is housed within the Department of Theatre and is composed of any students involved in theatrical production on campus; they need not be theatre majors or minors. It functions as an independent production organization that produces several small budget plays or musicals each year in the Strayer-Wood Theatre or other venues around the campus on an application basis.

**Theta Alpha Phi.** A National Honorary Fraternity for students participating in theatre at UNI. This organization performs service projects around the community and hosts an annual awards and honors banquet commemorating the previous year's season.

## Gallagher-Bluedorn Performing Arts Center

[www.gbpac.com](http://www.gbpac.com)

The GBPAC hosts over 30 internationally-acclaimed artists each year, offering a culturally-diverse palette of dance, theatre, jazz, classical, world music - spanning from STOMP and Penn & Teller to the Moscow Ballet. Discounted tickets are available to UNI students. The center also provides experiential learning opportunities for UNI students in marketing, ticketing, stage production, and in-house management. For more information call 319-273-3660.

## Community Participation and Organizations in the Arts

### Department of Art

[www.uni.edu/artdept/](http://www.uni.edu/artdept/)

The Department of Art promotes the arts not only on the UNI campus but also in the greater Cedar Valley. The department sponsors joint exhibitions with local arts organizations such as the Hearst Center for the Arts in Cedar Falls and the Waterloo Center for the Arts. Faculty members within the Department of Art actively exhibit their work locally, regionally, nationally, and internationally. Many curate and organize exhibitions of works by other artists for galleries within the community. Faculty members are also active participants on boards, committees, and panels for local, state, and national arts organizations.

## School of Health, Physical Education and Leisure Services

[www.uni.edu/coe/hpels/](http://www.uni.edu/coe/hpels/)

Participation in the dance performing groups is open to UNI faculty, staff and local community members as well as UNI students. The companies are available for performances, workshops and assembly programs for local and statewide groups.

They collaborate with the Artists Series program of the Gallagher-Bluedorn Performing Arts to host visiting dance artists for master classes and informal gatherings.

The dance faculty members are actively engaged in state, regional, and national level professional organizations and art organizations. They regularly attend conferences and they encourage and assist students in attending these as well.

## School of Music

[www.uni.edu/music](http://www.uni.edu/music)

**UNI Suzuki Program.** The UNI Suzuki School, founded in 1976, offers individual and group lessons in violin, viola, cello, and flute (based on the Suzuki philosophy) to approximately 200 northeast Iowa students, ranging from ages 3 to 18, to adults. In addition, the school includes several levels of theory classes, small ensemble sessions, and participation with visiting artists to the university community. The school provides annual individual/group recitals and outreach performance opportunities. It also sponsors an advanced violin performance group Fiddlesticks, the Northern Iowa Junior Orchestra (area string students in grades 6-8), and the Northern Iowa Youth Orchestra (area string students in grades 9-12). The school is also part of a collaborative effort with the Center City for the Arts in Waterloo to bring quality violin instruction to students in the urban neighborhood. This project is called Music Works and provides year-round scholarships and instruments to these youths. There are opportunities for UNI students to teach and observe.

**UNI New Horizons Band.** Started January of 1999, this group gives an opportunity for those 50 years of age or older to take group lessons and play in band. This includes beginners, those who may have previously played or those who currently play a band instrument. There are opportunities for UNI students to be involved in teaching group lessons to members.

**Northern Iowa Children's Choir (NICC).** The NICC was formed in January of 1997 in order to provide an additional choral experience for the students in the Cedar Valley area, to offer opportunities for the music education majors at UNI to work with children in a choral setting, and to serve as a model for teaching, conducting, and management for all UNI students. The members of NICC represent approximately 30 different schools and range in age from those entering grade four to those completing grade eight. These students have been accepted into the choir through audition.

For more information visit [www.uni.edu/music](http://www.uni.edu/music).

**The UNI Community Music School,** founded in 2006, offers private lessons for beginning, intermediate, and advanced students, and outreach teaching opportunities for UNI School of Music students. Instruction is individually designed to meet each student's needs and is offered in cooperation with the public/private/parochial school programs. During each semester, students participate in an informal Performance Class/Recitals where they share their music with other students, family, and friends.

## Department of Theatre

[www.uni.edu/theatre](http://www.uni.edu/theatre)

**S.T.A.G.E., Inc.** UNI's oldest community support organization and one of the nation's first community support organizations for an academic theatre program, was founded in 1978 as a way for the local community to recognize and support the contributions made by the theatre and its programs. It has supported visiting artists, scholarships, and theatre trips to London, Minneapolis, and Chicago. Over the years, it has provided volunteers, works of art for the theatres, and generous hospitality to the theatre's patrons.

## Gallagher-Bluedorn Performing Arts Center

[www.gbpac.com](http://www.gbpac.com)

**Friends of the Gallagher-Bluedorn** offers the opportunity to support programming and educational programs with membership in the organization.

**GBPAC Advisory Board.** The GBPAC is made up of an advisory board consisting of representatives from the community, UNI students, and faculty.

# Academic Regulations

## Assessing Student Learning at UNI

UNI is committed to the assessment of student learning for purposes of the ongoing improvement of curriculum, programs, and services offered by the university and for accreditation processes. Students, faculty, staff, and administrators all play a role in student learning and all benefit from the creation of useful and meaningful assessment strategies and information.

Assessment activities at UNI are conducted by academic, administrative, and student services departments and units and may take the form of surveys, standardized tests, program evaluation forms, focus groups, student projects, student reflective activities, or any of a variety of other mechanisms. Some assessment instruments are given to specific groups of students; others are given to randomly selected groups of students. Assessments may be administered both inside and outside of the classroom. Some assessments may be voluntary; others may be required.

Assessment-related data are kept confidential for individual students and are released only in aggregate form. Unless the assessment tool is also part of the assignments for a course, student performance in the assessment activity does not affect course grades or progress toward graduation.

Questions about assessment at UNI can be directed to the Office of Academic Assessment and the Office of Institutional Research.

## Academic Program: Student Load

The registration of every student is subject to the approval of her/his advisor.

The regular work of an undergraduate student for the fall or spring semester usually consists of 16 or 17 hours. First semester students are limited to a maximum of 18 hours.

Students may register for hours up to and including the limits indicated below without obtaining special permission:

Probation and Warning Students	14
All Other Undergraduates	18
Graduate Students	15

**Undergraduate** students who wish to register for an overload must contact the Office of the Registrar for approval **prior to registration**.

The normal maximum undergraduate student load during the summer session is one semester hour per week of instruction. Undergraduate students who wish to register for an overload must seek approval through the Office of the Registrar.

**Graduate** students must submit a Student Request form to their advisor, which is forwarded to department heads and the Dean of the Graduate College. A 3.00 GPA or above at UNI will usually be required for consideration of an overload request.

The maximum graduate student load during each semester of the academic year is 15 hours. Persons employed full-time should not register for more than 6 hours of graduate credit in any semester of the academic year.

The normal maximum graduate student load during the eight-week summer session is 9 hours; that normally permitted during each four-week split summer session is 4-5 hours.

Exceptions to load restrictions for graduate students may be granted only by the Graduate College.

## Classification of Students

	Earned Semester Hours
Freshman.....	less than 30
Sophomore.....	30-59
Junior.....	60-89
Senior .....	90 and over

## Full-time/Part-time Status

Fall and Spring Semesters	Undergraduate	Graduate
Full-time	12 or more hours	9 or more hours
3/4 time	9-11 hours	7-8 hours
1/2 time	6-8 hours	5-6 hours
Less than	1/2 time	1-5 hours 1-4 hours
<b>Summer Session*</b>		
Full-time	9 hours	7 hours
3/4 time	7-8 hours	6 hours
1/2 time	5-6 hours	4-5 hours
Less than 1/2 time	1-4 hours	1-3 hours

\*The above specifications apply **only to eight-week courses**. For the specifications which apply to four- or six-week session courses or a combination, consult the Office of the Registrar.

## Change of Registration

Students may add classes, without approval, during the first seven (7) instructional class days of a semester. After the seventh instructional day of the semester and before the end of the third week of the semester, the student must have departmental approval to add a class. For the summer sessions a proportionately equal amount of time is allowed at the beginning of a session for adding classes.

Approval to add a course after the third week of the term is rare and is at the discretion of those approving the request. To add a class for credit after the third week of a term, the student must have the approval of the instructor, the student's advisor, and the head of the department in which the course is offered. Courses dropped after the deadline for dropping with a *W (Withdrawn)*, which is 10 calendar days after the end of the first half of the fall and spring semesters and at the mid-point of half-semester and summer session courses, will be recorded as *F (Failed)* unless there are unusual circumstances and the student is doing passing work - in which case the instructor, the student's advisor, and the head of the department in which the courses are offered may approve a grade of *W*.

Pertinent dates governing the dropping and adding of courses, change to or from ungraded credit, and deadlines for making changes without charge are contained in the Schedule of Classes for that particular session.

## Withdrawal Refunds or Fee Reduction

The information below applies to students who withdraw completely from school during a semester or summer session. **Dropping one or more classes does not constitute a withdrawal unless students drop all classes for which they are registered.**

If credit is earned during the period of enrollment, there is no refund or reduction of academic fees. For any two- or three-week session, there is no refund or reduction of academic fees. Room and board refunds are made according to agreement set out in the Contract for Room and Board.

Academic fees for a student enrolled for a regular semester or summer session who withdraws from the university will be reduced by the percentage indicated in the table below, beginning with the date of formal withdrawal with the Registrar. The amount of reduction will vary from 90 to 25 percent. For summer sessions, reduction percentages are on a day-count basis. (Please see the Schedule of Classes for information pertaining to a particular semester or summer session.)

### Fall/Spring Semester

Percentage of fee reduction	Withdrawal during specified week
100	before classes begin
90	first week
75	second week
50	third week
25	fourth week
0	after fourth week

### Summer Session

Withdrawal on day Number

Withdrawal during specified class days

Percentage of fee reduction	8-week or longer sessions	6-week sessions	4-week sessions
100	before classes begin	before classes begin	before classes begin
90	1-3	1-2	1-2
75	4-6	3-4	3
50	7-8	5-6	4
25	9-10	7-8	5
0	11th day and beyond	9th day and beyond	6th day and beyond

No refund for two- or three-week sessions.

## Withdrawal Procedure

A student who has started attending classes, and who finds it necessary to withdraw completely from school, initiates the withdrawal through the Office of the Registrar. Those students who live in residence halls must also cancel the housing contract through the hall coordinator of the residence hall in which they live. Those students receiving financial aid must contact the Financial Aid Office. Students who wish to drop one or more courses and yet remain enrolled should consult the section Change of Registration.

A student who has registered but decides not to come to the University of Northern Iowa should advise the Office of the Registrar in writing at as early a date as possible of the need to cancel the registration, listing the reason(s) for withdrawing from the university. Withdrawal after classes begin will result in a tuition charge.

## Student Identification Card (uCard)

Each new student receives an identification card (uCard) which is used throughout attendance at the university. A fee of \$25.00 is charged to replace this uCard.

## Class Attendance

Students are expected to attend class, and the responsibility for attending class rests with the student.

Students are expected to learn and observe the attendance rules established by each instructor for each course.

Instructors will help students to make up work whenever the student has to be absent for good cause; this matter lies between the instructor and student.

Whenever possible, a student should notify the instructor in advance of circumstances which prevent class attendance.

Instructors will notify the Registrar in case a student's attendance is such that her/his membership in a class is in doubt.

## Policy on Make-up Work and Missed Classes

It is the expressed focus of the University of Northern Iowa to further the educational development of each of its students. On occasion events will necessitate a student's absence from class. In order for both faculty and students to effectively plan for these absences, the following procedures are recommended.

1. All parties involved should be made aware of scheduled absences well ahead of the date(s) of absence. In the case of extra-curricular activities, a semester-long schedule should be prepared and distributed at the beginning of the semester. In instances where semester-long schedules are not feasible, two weeks written notification shall be given for all absences. This notification shall take place even if the absence is potential rather than definite. Assuming that appropriate notification has been provided, students and faculty shall mutually agree as to how assignments, lectures, exams, etc. shall be made up. The type and extent of make-up work shall be at the discretion of the faculty member.
2. Occasionally there will occur situations where two weeks notice is impossible. On these occasions, students, faculty, and others concerned should work closely together to ascertain whether special arrangements can and/or should be made.
3. Faculty shall not penalize a student for missing a class or exam for an educationally-appropriate activity, including university sponsored or sanctioned events.
4. Where situations of irreconcilable disagreement occur which are not resolved at the department level, a panel comprised of the Vice President for Academic Affairs, or that officer's designee, the Department Head of the academic department involved, and a representative of the extra-curricular program (where applicable) shall meet at their earliest convenience with the faculty member and the student to mediate the matter.

(Approved by the President's Cabinet April 23, 2001. Approved by Faculty Senate April 24, 2001.)

## Course Credit Expectation

An academic semester contains 15 weeks (approximately 75 days) of instruction. Students enrolled in courses whose mode of instruction is lectural/discussion-based should expect to have 15 hours of class contact over the length of the semester for each hour of credit available. Students enrolled in courses whose mode of instruction is activity-based should expect to have 30 hours of class contact over the length of the semester for each hour of credit available. Students enrolled in courses offered on a shorter-term basis should expect their class contact to be proportionately increased to be comparable with semester long course expectations.

## The Making Up of Incomplete Work

To receive credit for course work a student is required to be in attendance for the full semester. Exceptions to this rule are rarely made.

Work lost by late enrollment or by change of registration may be made up for credit by an undergraduate student with the consent of the Office of Academic Affairs. Graduate students must have the consent of the Dean of the Graduate College.

Work lost because of absence due to illness, or other extenuating circumstances, may be made up, but arrangements for making up work missed are made between the student and the instructor.

Work left incomplete at the end of a semester or summer session will be reported as *F (Failure)* unless a report of *I (Incomplete)* has been authorized by the instructor. The *Incomplete* is restricted to students doing satisfactory work in the class who, because of extenuating circumstances, are unable to complete the work of the course. The *Incomplete*

is limited to assigned work during the final sixth of the term. If a course is reported as *Incomplete*, a student is not prevented from registering for another course for which the incomplete course is a prerequisite.

**Undergraduate:** Work reported as *Incomplete* for undergraduate students in the fall semester must be completed by July 1st the next calendar year. Work reported *Incomplete* in the spring semester must be completed by December 1st. Work reported as *Incomplete* in the summer session must be completed by February 1st the next calendar year. The exact length of time to remove the *Incomplete* within the above guidelines, is set by agreement between the instructor and the student. If the work reported as *Incomplete* is not made up by the deadline noted above, it is automatically entered as an *F (Failure)* on the student's record. However, if for sufficient cause an *Incomplete* cannot be removed in the time allowed, a request for an extension of time may be made to the instructor of the course. The extension, if approved, is for a period of up to another six months as designated by the instructor.

**Graduate: Work reported as I (Incomplete) in the fall session for graduate students must be completed by June 1st the next calendar year. Work reported Incomplete in the spring and summer sessions must be completed by January 1st the next calendar year.** The exact length of time to remove the *Incomplete* within the above guidelines, is set by agreement between the instructor and the student. If the work reported as *Incomplete* is not made up by the deadline noted above, it is automatically entered as an *F (Failure)* on the student's record.

**Any requests for an exception to the above guidelines for graduate students must be submitted in writing on a Student Request (<http://access.uni.edu/forms/index.shtml>) and receive departmental and Graduate College approvals. Only under the most unusual circumstances would requests for additional time be approved.**

Some courses continue beyond the normal ending date of the semester or session. In such cases, the initial grade reported will be an *RC* which means *Research or Course Continued*. Once the extended instructional period is finished, the *RC* grade will be replaced with the A-F grade assigned by the instructor.

## Regression

Regression occurs when a student enrolls in a course which has content fundamental to another course the student has previously completed successfully. When such regression occurs, the regressive course will be available on an ungraded (credit/no credit) basis only. Credit may be earned but the hours earned will increase the student's minimum degree hour requirement by an equal amount.

The decision as to whether a course is regressive is made by the department offering the courses. Regression does not occur when the more advanced course was failed. (Courses to which this policy applies will be identified in the Schedule of Classes.)

## Duplication

When two courses have content which is highly similar, e.g., one for the liberal arts core and one for major/minor requirements, the department offering the course(s) will determine if degree credit can be earned in both courses. If the department will not allow degree credit in both courses, the credit in the course taken second will increase the student's minimum degree hour requirement by an equal amount. Such second courses may be completed only on an ungraded (credit/no credit) basis.

## Marks and Grade Points

The marks A, B, C, D, F (Failed), and I (Incomplete) are used in indicating quality of work. Courses dropped during the first one-eighth of the semester or summer session are not recorded on the student's record. Courses dropped during the second- through fourth-eighth of the term

are indicated on the student's record by W (Withdrawn). For courses dropped during the final one-half of the term (the specific date of the last day to drop a course without an F is listed in the Schedule of Classes for each semester), F (Failure) shall be reported unless for unusual circumstances specific permission is given to report otherwise.

The time for dropping classes in the summer session is proportionately shorter than in the regular semester. Date deadlines for dropping or adding courses are given in the Schedule of Classes for each semester and the summer session.

Grade points are awarded as follows: For each hour of credit marked A, 4.00 grade points; A-, 3.67; B+, 3.33; B, 3.00 grade points; B-, 2.67; C+, 2.33; C, 2.00 grade points; C-, 1.67; D+, 1.33; D, 1.00 grade point; D-, 0.67; F, 0.00 grade points.

**Grade Index** - In determining a student's cumulative grade index, all course work attempted at this university shall be used as the basis of computation with the following exceptions for students enrolled as undergraduates. If a student repeats successfully a course s(he) has previously failed, only the grade received for the successful completion will be included in figuring the cumulative grade point. If a student repeats a course s(he) has successfully completed, the grade received the last time the student takes the course will be used in figuring the grade index even though the last grade may be lower than the grade received previously. **The student's transcript of record will show every time the course is taken and the grade earned.** Post-baccalaureate students as undergraduates enrolled for work to meet requirements for certification as elementary or secondary teachers are given the same grade index advantage as is given undergraduate students for courses repeated. This applies only to those courses required for certification. If a graduate student repeats a course, both grades count in computing the index.

**Failed Courses** - A course taken in an on-campus setting, which was failed, may be repeated but must also be taken in a like on-campus setting. A UNI course which was failed may be repeated at another accredited college or university as long as the course has been determined and approved to be an equivalent to the original course. A course that has been failed may not be repeated by correspondence (specified as Guided Independent Study at UNI), nor may credit be established by examination for a course which has been taken previously and failed. A correspondence/UNI Guided Independent Study course which has been completed and failed may be repeated through correspondence/UNI Guided Independent Study.

## Academic Warning, Probation, and Suspension

**Warning.** This action is taken by the Office of the Registrar. This action is not recorded on the student's permanent academic record.

**Probation.** This determination is made by the Office of the Registrar. This action is not recorded on the student's permanent academic record.

**Suspension.** This determination is made by the Office of the Registrar. This action is recorded on the student's permanent academic record.

**For students who have attempted 29 or fewer graded hours:**

**Warning.** Any student who is from one through five grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic warning.

**Probation.** Any student who is from six through thirteen grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed

## Academic Regulations

on academic probation.

**Suspension.** Any student who is fourteen or more grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic suspension.

### For students who have attempted between 30 and 59 graded hours:

**Warning.** Any student who is from one through five grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic warning.

**Probation.** Any student who is from six through eleven grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic probation.

**Suspension.** Any student who is twelve or more grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic suspension.

### For students who have attempted 60 or more graded hours:

**Warning.** Any student who is one through five grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic warning.

**Probation.** Any student who is six through nine grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic probation.

**Suspension.** Any student who is ten or more grade points deficient of the number necessary for a 2.00 cumulative grade point average at UNI and/or in combination with her/his transfer collegiate record for a 2.00 total cumulative grade point average will be placed on academic suspension.

Additionally, a student's actions demonstrated by repeatedly dropping courses and/or totally withdrawing from school will bring into question the student's intent to be a serious scholar, and such students may be placed on academic suspension.

**Readmission After Suspension.** An undergraduate student who has been suspended may be readmitted only after applying for readmission in writing and receiving favorable action on the application from the Committee on Admission and Retention. Applications for Readmission may be secured from and filed with the secretary of the committee in the Office of the Registrar. Academic suspension is for a minimum period of one academic year. Only the most extenuating circumstances would warrant consideration for readmission before one academic year has elapsed.

Upon readmission students must earn a minimum of a 2.00 grade point average each term they are enrolled until their cumulative grade point average is 2.00 or higher. Failure to earn a 2.00 or higher grade point average in any semester following readmission will cause the student to be suspended again. Academic suspension for a second time is considered permanent. Only the most extenuating circumstances would warrant consideration for readmission a second time.

## Dean's List

To be eligible for the Dean's Honor List, which is published each fall and spring semester, a student must have earned a grade point average of no less than 3.50 while completing at least 12 semester hours in **graded** work or in field experience in that semester. A Dean's Honor List is not compiled for the summer session, nor does the list include graduate students.

## Graduation with Honors

Three levels of honors are awarded to students on graduation from a bachelor's degree curriculum. To receive an honor rating, the student must earn not less than 55 semester hours of credit at this university (effective Spring 2008). Only credit **earned in residence at this university** is considered in making honor awards, except for students graduating with the Bachelor of Liberal Studies degree in which case both residence and non-residence credit taken at this university is considered.

The names of the students receiving honors are identified in the commencement program and on their academic transcript.

**Summa Cum Laude:** Students whose cumulative UNI grade point average places them in the top 3% of those students graduating from their academic major college/division will be awarded *Summa Cum Laude*.

**Magna Cum Laude:** Students whose cumulative UNI grade point average places them in the top 4% through top 8% of those students graduating from their academic major college/division will be awarded *Magna Cum Laude*.

**Cum Laude:** Students whose cumulative UNI grade point average places them in the top 9% through top 15% of those students graduating from their academic major college/division will be awarded *Cum Laude*.

## University Honors Program

[www.uni.edu/honors](http://www.uni.edu/honors)

The University of Northern Iowa Honors Program is designed to meet the needs of motivated, high-achieving students. Challenging classroom experiences, interaction with faculty, and social connections with other capable students are just a few of the benefits of Honors involvement.

Entering first-year students with an ACT of 27 or higher (SAT I of 1210 or higher) and a high school rank in the top 10% will automatically be invited to join the University Honors Program upon their admission to the University of Northern Iowa. Students who do not meet the criteria for an automatic invitation can request that their case be reviewed on an individual basis. Current UNI or transfer students may apply for admission to the program with a GPA of 3.30 or better and a professor's recommendation. See [www.uni.edu/honors/admissions.shtml](http://www.uni.edu/honors/admissions.shtml) for more information.

To remain in the program, students must maintain a minimum cumulative grade point of 3.30. Students who do not meet the minimum cumulative grade point requirement of 3.30 are placed on probation. The non-cumulative grade point average of the following semester should be above 3.30 to provide evidence of overall improvement. Such evidence of improvement, and continued improvement resulting in a cumulative grade point above 3.30, will remove the student from probationary status. If a student is on probation and no improvement is shown, the student will be dismissed from the program. If a student wishes to re-enter the program at a later date, reapplication is necessary.

The University Honors Program offers two designations for participation: *University Honors with Distinction* and *University Honors*. To graduate from the Honors Program with *University Honors with Distinction*, a student must produce an honors thesis or project and take a total of **30 hours of honors credit**. To graduate from the Honors Program with

*University Honors*, a student must produce an honors thesis or project and take a total of **18 hours of honors credit**. See [www.uni.edu/honors/programreq.shtml](http://www.uni.edu/honors/programreq.shtml) for a complete description of program requirements and a standard distribution of hours.

For more information, contact the University Honors Program, 2401 College Street, Cedar Falls, IA 50614-0355, 319-273-3175.

## Credit/No Credit Grading

An undergraduate student having earned twelve semester hours of credit at this university may take courses offered by this institution for which s(he) is otherwise eligible for degree credit without grade under the following conditions:

1. The course work requirements for a student taking work on an ungraded basis shall be the same as for a student taking the work on a graded basis.
2. A grade of C- or higher is required in a course to receive credit on the credit/no credit option.
3. Not more than 22 hours of ungraded course work in addition to courses authorized to be offered only for ungraded credit may be taken toward any bachelor's degree.
4. Ungraded credit may not be applied to work required for a major or minor except with the consent of the head of the department in which the course is offered.
5. No course taken in the credit/no credit option may be applied toward meeting a Liberal Arts Core requirement.
6. Except for *Field Experience: Exploring Teaching (200:017)*, *Field Experience: Teacher as Change Agent (200:128)*, and for *Student Teaching (280:132 through 280:140)*, ungraded credit may not be used to meet the Professional Education Requirements for the teaching program.
7. Course work passed without grade (CR=credit) may not be retaken except by special permission of the dean of the college in which the course is offered.
8. A graded course completed may not be retaken on an ungraded basis.
9. The credit/no credit system may not be used with Credit by Examination, Extension, or Correspondence (specified as Guided Independent Study at UNI) courses.
10. Change of registration in a course to or from a non-graded basis may not be made after five class days beyond midterm in a full, academic-year semester, or after the mid-point in the duration of a course taught in a period less than a full, academic-year semester. Only one such change of registration may be made per course.  
A graduate student may include up to three credit hours of non-graded graduate course work in the program of study with the approval of the department.
11. The credit/no credit grading system may not be used in Presidential Scholars Seminars or for the Presidential Scholars Thesis/Project credit.

## Open Credit System

This type of undergraduate credit is designed for special projects such as a paper, experiment, work of art, or portfolio assessment of prior learning. The experience upon which the project is based may have been completed at any previous time; however, the student must be registered for credit at this university during the semester open credit is requested and open credit will be recorded only after the student has satisfactorily completed 12 hours of credit at this institution.

A project may be submitted any time during the semester up to the last date to add a second half-semester course for credit. There is no guarantee of credit prior to or upon submittal of the project. The project is submitted to an ad hoc faculty committee of three faculty members

recommended by the student and approved by the head of the academic department or discipline in which the project falls; two faculty members are chosen from the academic area or discipline of the project and one from any area. The student may not submit a project evaluated by one committee to a second committee for reevaluation. The student may re-submit a project to the original committee at the committee's discretion or with its encouragement.

The number of open credit hours assigned to a project will reflect the academic evaluation of the project; credit will be awarded for work judged to be of at least C-level quality. No letter grades are given. The range of credit is from 0-6 hours per project. A student may apply a maximum of 18 hours of open credit toward graduation requirements. Open credit is normally elective but, upon the recommendation of the ad hoc committee, it may be approved for requirements in the Liberal Arts Core with the approval of the Office of Academic Affairs or for major credit with departmental approval.

Students should contact the Special Programs Office or the appropriate departmental office for advice in submitting projects. Application forms may be secured from the Office of the Registrar.

## Cooperative Education/Internship Program

Cooperative Education/Internships is an educational program which helps students integrate academic study with work experience. Students in the Co-op/Internship Program may work full-time or part-time in a business, industry, or governmental/non-profit setting in locations ranging from local to international. All co-op/internship placements are credit bearing.

Participation in co-op/internships is optional, except for certain majors which require participation for graduation. Academic departments establish requirements for enrollment. Students may qualify for course enrollment when all of the following conditions are met:

1. The student has reached at least sophomore status.
2. The student has a grade point average of at least 2.50 based upon one semester or more of course work at UNI. Some departments may require a higher minimum grade point average than 2.50 or completion of identified prerequisite course work before participation.
3. A UNI faculty member approves the placement opportunity and all arrangements, including the project to be completed, and agrees to supervise and evaluate the student's learning experience.
4. Approval is obtained from the head of the academic department granting credit.

Staff from the Co-op/Internship Program can assist students with developing a placement opportunity and arranging for supervision at the placement site. Placements may occur during fall, spring, or summer terms. Students are encouraged to contact the Co-op/Internship Office during their freshman year to determine the point in their academic progression at which participation in a co-op/internship opportunity will benefit them most. Students may participate in more than one co-op/internship experience. Information on the program can be found at [www.uni.edu/careerservices/co-op/](http://www.uni.edu/careerservices/co-op/)

## Credit by Examination

Credit in a course may be earned by examination. Credit is earned only if a grade of A or B is received in the examination. A grade of C will release a student from a course requirement, but gives no credit. A grade below C gives neither credit nor release and is not recorded on the student's record. Credit earned by examination is recorded on the student's record only as Passed or Released. The results are not counted in a student's grade index.

## Academic Regulations

Credit may not be established by examination for a course which has been taken previously and failed, or for a course for which the student does not meet the prerequisite, or for a course which is a prerequisite to one for which credit has already been earned.

Application for credit by examination is made to the Office of the Registrar, and approved by the head of the department offering the course and the dean of the college in which the course is offered.

The department is responsible for giving the examinations and establishing the requirements for fulfilling the examinations. Credit by examination is open to most courses offered on campus; however, a student should discuss the course requirements with the department head before making application for credit by examination.

**Note:** For limitations in the total amount of credit earned by examination, see page 59.

## Independent Study

Undergraduate students of outstanding ability and achievement may be permitted to earn credit by departmental independent study.

This method of study follows the pattern of an investigation undertaken by a graduate student, although in reduced form. It involves independent thinking, the drawing of conclusions, the summarizing of evidence, or creative work. Whenever possible, the result of the investigation is summarized in a scholarly paper or report, prepared and documented in an approved fashion. This report is filed in the department office.

Independent study should not involve work available through regular university courses; neither should it be confused with individual instruction, or the tutorial method. Individual instruction is provided on rare occasions for instruction in a university course not currently being offered.

Application for independent study, including an outline of the proposed project, should be made to the head of the department in which the study is to be done and must have this approval before the project is undertaken. The student's program of independent study will be under the immediate supervision of one or more faculty members. Except for the major in Individual Studies, not more than six hours of credit earned by independent study may be used to meet the requirements of a major.

Independent study may also be taken under the *Individual Studies* program. See pages 157-158 for details.

## Auditing Classes

A student may register for classes on an audit (non-credit) basis at the University of Northern Iowa if a space is available in the class. If the addition of the course to be audited (visited) makes the student's total course load hours more than is permitted according to the student's grade point average, the student must also have written approval from the Office of the Registrar for an overload of course work.

There is no reduction of fees for auditing (visiting) a course.

Specific information on auditing (visiting) classes may be obtained from the Office of the Registrar. Visitors in the courses are not required to take examinations, take part in class discussions, or complete other work. Audits will not be recorded on the permanent record except by a student request approved by the instructor showing that the student regularly attended the course.

## Writing in the Liberal Arts Core and the Disciplines

Writing fosters learning, develops thinking, and provides an essential means of communication in a literate society. The ability to write well contributes to success in the classroom and in one's personal and professional life. Northern Iowa is committed to helping students become competent writers. At UNI, students write in the Liberal Arts Core and

in each undergraduate major. The Liberal Arts Core writing experience lays a foundation for the writing required within academic majors. Each department sets the writing requirements for its majors; because writing needs vary across disciplines, the requirements vary across departments.

Students satisfy Northern Iowa's Liberal Arts Core writing requirement by completing one of three Liberal Arts Core writing courses: 620:005, *College Writing and Research*; 620:015, *Craft of Academic Writing*; or 620:034, *Critical Writing About Literature*. For students who do not meet the English admissions requirement, and for other students with limited writing experience, 620:002 *College Writing Basics* provides practice in the skills necessary for success in these courses.

## College Level Examination Program (CLEP)

The University of Northern Iowa is a participating university in the College Level Examination Program (CLEP). CLEP examinations are administered regularly throughout the year. Persons interested in earning credit through CLEP should contact Examination and Evaluation Services for information and dates of the examinations.

Five popular examinations are given: *English Composition without Essay or with Essay*, *Mathematics*, *Natural Sciences*, *Social Sciences-History*, and *Spanish*. The test scores are reported as scale scores. Scores are compared with the percentile ranks based on scores achieved by a representative sample of students at the end of their sophomore year in American colleges and universities. Credit earned by CLEP is applied to requirements at UNI. CLEP tests are usually taken at the time of first registration, and must be completed before registering for courses in subject areas to which the tests apply.

A list of courses for which CLEP examinations may be taken at UNI and minimum scores to earn credit is available from the Office of Admissions or Examination and Evaluation Services. Students should expect their scores at the time of testing (except English Composition with Essay).

Any CLEP test may only be attempted once. For limitations on the total amount of credit earned by examination, including CLEP, which may be applied toward graduation degree requirements, see page 59.

Credit established by CLEP at an institution participating in the Iowa Community Colleges/Regents' Universities Credit by Examination Agreement will be accepted in transfer at full value when terms of the agreement are met.

Students who have established credit by CLEP at a college or university other than an Iowa Regents' University or an Iowa area community college participating in the Iowa Credit by Examination Agreement, may submit official reports of their scores for consideration. Students whose scores meet UNI standards for awarding credit on the basis of CLEP will receive appropriate credit.

A student may not earn credit by examination in an area in which s(he) previously has attempted or completed an equivalent course, a course of similar level, or one that is more advanced in content level. A course in which a student was enrolled until such time that a W for a grade was earned is considered to be an attempted course.

Fee payment, registration procedures, and test date information are available by contacting Examination and Evaluation Services, 007 Innovative Teaching and Technology Center, UNI, 319-273-6023 or at [www.uni.edu/unialc/examinations.html](http://www.uni.edu/unialc/examinations.html)

## Advanced Placement Program

The University of Northern Iowa participates in the Advanced Placement Program of the College Board. Through enrollment in special courses in a participating high school, a qualified high school senior may take Advanced Placement examinations in one or more academic



subjects at the college level. UNI grants college credits in art, biology, chemistry, computer science, economics, English, environmental science, history, human geography, Latin, mathematics, modern language (French, German, Spanish), music, physics, political science, psychology, and statistics to students who pass examinations with scores of 3, 4, or 5. Details of this program may be obtained from Examination and Evaluation Services, UNI. *(For limitations in the total amount of credit earned by examination, see page 59.)*

## Graduate Credit for Undergraduate Students

Undergraduate seniors who are in their final semester and within eight semester hours of graduation, or in their final summer session and within 4 hours of graduation, may register for graduate credit by filing a Student Request on-line at MyUNIverse (<http://access.uni.edu/forms/index.shtml>) to obtain the approval of the head of the department offering the course work. Approval by departments and the Graduate College must be obtained on a Student Request if the cumulative GPA is below 3.00. **The Student Request must be processed to enable the student to register for a graduate class.** The student presents the Student Request, with appropriate signature(s), when scheduling for class. Their combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester or 8 hours in a summer session, and they must be enrolled in sufficient undergraduate work to complete the bachelor's degree in the semester or summer session in which application is made.

Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the work is taken. Such credits may or may not be counted toward graduate degree programs at the discretion of the graduate department.

**Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.**

## Workshops and Study Tours

From time to time, and especially during the summer session, opportunities are offered for earning credit under the workshop plan. Workshops provide residence credit, but a maximum of 6 semester hours may be applied toward graduation.

Occasionally, departments of the university may arrange extensive study tours here and abroad for credit. These trips are open to graduate and undergraduate students. Plans for this type of study and the number of hours of credit which may be earned are announced through university publications. During recent summers, several study tours were conducted by departments of the university. (See pages 9-11 for details.)

## Student Requests for Exceptions to Academic Policy

Students who wish to request that an individual exception be made to a stated academic policy should complete a Student Request in consultation with their advisors. Student Request forms are available online at <http://access.uni.edu/forms/index.shtml>, in all departmental offices, and from the Office of the Registrar. The advisor's signature is required for all requests. Other approvals may include the instructor, department head, dean, University Registrar, and Associate Provost for Academic Affairs, depending on the nature of the request.

## Academic Ethics Policies

Students at the University of Northern Iowa are required to observe the commonly-accepted standards of academic honesty and integrity. Except in those instances in which group work is specifically authorized by the instructor of the class, no work which is not solely the student's is to be submitted to a professor in the form of an examination paper, a term paper, class project, research project, or thesis project.

Cheating of any kind on examinations and/or plagiarism of papers or projects is strictly prohibited. Also unacceptable are the purchase of papers from commercial sources, using a single paper to meet the requirement of more than one class (except in instances authorized and considered appropriate by the professors of the two classes), and submission of a term paper or project completed by any individual other than the student submitting the work. Students are cautioned that plagiarism is defined as the process of stealing or passing off as one's own the ideas or words of another, or presenting as one's own an idea or product which is derived from an existing source.

It is not acceptable for the work or ideas of another scholar to be presented as a student's own or to be utilized in a paper or project without proper citation. To avoid any appearance of plagiarism or accidental plagiarism, it is important that all students become fully cognizant of the citation procedures utilized in their own discipline and in the classes which they take. The plea of ignorance regarding citation procedures or of carelessness in citation is not a compelling defense against allegations of plagiarism. A college student, by the fact that s(he) holds that status, is expected to understand the distinction between proper scholarly use of others' work and plagiarism.

A student who is found to have improperly used others' work must expect to be penalized for such action - even if the argument is made that the action was taken with innocent intention - and the student's instructor will normally judge such work unacceptable. But it should be noted that the assignment of a low or failing grade for unacceptable work is not in itself a **disciplinary** action - even if the assignment of such a grade results in the student's receiving a lower grade in the course, including F, than s(he) would otherwise achieve. Such a response by an instructor is part of the normal grading process; if a student feels that s(he) has grounds to protest a grade received through this process, the student has access to the academic grievance procedure which the university has developed to deal with all student academic grievances.

On the other hand, cheating and plagiarism are issues which can affect a student's status at the university in more serious ways. As an educational institution, the university maintains standards of ethical academic behavior, and recognizes its responsibility to enforce these standards. Therefore, the following procedures of **academic discipline** prevail at the University of Northern Iowa.

If a student is determined by an instructor to have committed a violation of academic ethics, the instructor may take additional **disciplinary** action including, but not limited to, grade reduction for the course in which the infraction occurs, even if the reduction is over and above the normal consequences resulting from the grade merited by the unacceptable work.

In cases where such disciplinary action is taken, the instructor is obliged to report the action in writing, to the student, to the instructor's department head, (and, if the student is from a different department, to the head of the student's department), and to the Office of the Executive Vice President and Provost for Academic Affairs. The Executive Vice President and Provost for Academic Affairs will notify the student in writing that such action has been taken, and will maintain a file for each student so disciplined. (This file is confidential and is independent of the student's normal university records.)

A student wishing to appeal or dispute the disciplinary action taken may seek redress through the university academic grievance structure. In the case of a successful grievance, the evidence of the disciplinary action

## Academic Regulations

taken by the instructor will be expunged from the student's file by the Executive Vice President and Provost for Academic Affairs.

In cases of particularly flagrant violations of academic ethics relating to cheating or plagiarism, the instructor may feel obliged to recommend suspension from the University of Northern Iowa for a period ranging from the term in which the infraction occurs (with a loss of all credit earned during that term) to permanent suspension from the university.

Such recommendations are sent in writing to the department head and the Executive Vice President and Provost for Academic Affairs, the latter of whom informs the student in writing that the recommendation has been made. In such cases, the academic appeals procedure is automatically invoked by the Executive Vice President and Provost for Academic Affairs. Until the mandatory academic appeal in such cases has been completed, the recommended suspension is not in effect. In cases of a successful appeal to such action, the materials relating to the successfully grieved disciplinary action will be expunged from all university records.

Finally, the Executive Vice President and Provost for Academic Affairs will regularly monitor all files relating to disciplinary action taken against specific students. If the monitoring reveals a history of disciplinary actions taken against a particular student (excluding any actions which have been successfully grieved) such that there are three or more instances of such action subsequent to any academic grievances generated by such actions, the Executive Vice President and Provost for Academic Affairs will, as a matter of course, institute proceedings for permanent suspension of that student. The procedures demand that the Executive Vice President and Provost for Academic Affairs notify the student in writing that suspension procedures have been invoked, and there is an automatic appeal to the university academic grievance structure in all such cases.

All parts of the academic grievance structure (including those stipulated in the immediately preceding paragraph) apply in such cases, except that the Executive Vice President and Provost for Academic Affairs, as the disciplinary officer, functions in the role of the instructor in an academic grievance relating to a specific class.

## Student Conduct

The University of Northern Iowa expects all students to observe university regulations and the city, state, and federal laws, and to respect fully the rights of others. The University Student Disciplinary Code contains more specific information concerning student conduct and disciplinary action. This information is available by visiting [fp.uni.edu/vpress/handbook.html](http://fp.uni.edu/vpress/handbook.html). Individual copies are available in the Office of the Vice President for Student Affairs.

## Student Records

In the maintenance of student records, and in permitting access to those records or the release of information contained in those records, the University of Northern Iowa complies with the laws of the United States and the State of Iowa.

University policies relative to student records are available at the Web site [www.uni.edu/pres/policies](http://www.uni.edu/pres/policies). The Family Educational Rights and Privacy Act and the regulations required by this act may be reviewed in the Office of the Registrar.

## Student Persistence

Iowa Regents' Universities have conducted studies annually of student persistence to graduation. A summary of the findings of the most recent study may be secured from the Office of the Registrar.

## Academic Grievances/Undergraduate Students

Equitable due process in academic matters is provided in grievance procedures for undergraduate students. These procedures are published annually in the Northern Iowan in the Student Rights and Responsibilities Statement. Copies are also available in all departmental offices and the Office of the Executive Vice President and Provost, Seerley 1.

## Academic Grievances/Graduate Students

For graduate students and graduate assistants, equitable due process in academic matters is provided in grievance procedures established by the Graduate College. Copies of the grievance procedure guidelines and grievance forms are available in the Office of the Graduate College, Lang 110 and on the Web at [www.grad.uni.edu/information/policiesprocedures.aspx](http://www.grad.uni.edu/information/policiesprocedures.aspx).

## UNI Equal Opportunity Policy

### Purpose:

To provide guidelines regarding equal opportunity at the university in compliance with applicable federal and state nondiscrimination and affirmative action laws and regulations.

### Policy Statement:

The university has established its equal opportunity policy as follows:

No person shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination in employment, any educational program, or any activity of the university, on the basis of race, color, sex, age, disability, veteran status, religion, national origin, sexual orientation, or on any other basis protected by federal and/or state law.

The University of Northern Iowa seeks to prohibit discrimination and to promote affirmative action in its educational and employment policies and practices.

*(Approved by the President's Cabinet April 1, 2002)*

For additional information, contact the Office of Compliance and Equity Management, 117 Gilchrist Hall, UNI, (319) 273-2846, or visit [www.uni.edu/equity](http://www.uni.edu/equity).

## UNI Anti-discrimination and Harassment Policy

### Purpose:

To provide guidelines regarding discrimination and harassment applicable to the entire university.

### Policy Statement:

It is the policy of the University of Northern Iowa that there will be equal employment and educational opportunity without regard to race, color, sex, age, disability, veteran status, religion, national origin, sexual orientation, or any other basis protected by federal and/or state law. This includes the provision of a campus environment that is free from illegal discrimination and harassment. The university will not tolerate any form of illegal discrimination or harassment and will not condone any actions or words from employees or students that constitute such.

All members of the university community are accountable for compliance with this policy. The university is committed to eliminating illegal discrimination and harassment, wherever they occur in the university community, by taking corrective action as a result of violations of this policy. Violations may lead to disciplinary action up to and including separation from the university.

Sexual harassment is an important concern to the university and therefore warrants particular attention. The University of Northern Iowa considers sexual harassment to include unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when:

1. Submission to such conduct is made explicitly or implicitly a term or condition of an individual's employment or academic standing;
2. Submission to or rejection of such conduct by an individual is used as the basis for employment decisions or academic decisions affecting the individual; or
3. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working, academic, or social environment.

**Consensual Relationships:** Consensual romantic and/or sexual relationships where a power differential exists, whether real or perceived, may constitute sexual harassment. The effect of such a relationship may render an individual's work, academic, or social environment intimidating, offensive, or hostile. Further, the individual with the power in the relationship will bear the burden of responsibility should a complaint of sexual harassment be filed. Hence, all university employees are strongly discouraged from entering into romantic and/or sexual relationships, which could lead to the creation of a hostile educational, social, and/or work environment for other members of the university community.

**Confidentiality:** Complaints of discrimination or harassment filed with the university will be treated with the utmost privacy possible to the extent allowed by law, while also assuring a complete investigation. University personnel involved in or responsible for any aspect of a complaint shall maintain such confidentiality throughout the processing of the complaint.

Should the complainant publicly discuss the complaint, the university shall be relieved of its confidentiality obligations related to the disclosed information under this policy.

**Retaliation:** The university seeks to create an environment where its students and employees are free, without fear of reprisal, to use these procedures to determine if there has been a violation of their civil rights. Any act of retaliation will result in appropriate disciplinary action. Similarly, persons who use this process to bring frivolous or otherwise bad faith allegations against an employee shall be subject to disciplinary action.

**Reporting Responsibilities:** All university employees in a supervisory capacity are required to report to the Office of Compliance and Equity Management any allegation of discrimination and/or harassment of which they are made aware. The confidentiality of all parties will be honored to the extent legally allowed and which provides for an appropriate investigation. Persons seeking information or guidance concerning potential discrimination or harassment allegations are advised that the university may need to take action once it is informed of an allegation whether or not the person wants to pursue a complaint.

Non-supervisory employees are strongly encouraged to report allegations of discrimination and/or harassment to any supervisor or directly to the Office of Compliance and Equity Management.

**Disabilities:** In order to receive assistance with requests for accommodations, a student with a disability must contact the Office of Student Disability Services. An employee with a disability who wishes to request an accommodation should contact his/her supervisor or the Coordinator of Faculty and Staff Disability Services located in Human Resource Services. A visitor with a disability who wishes to request an accommodation should contact the Coordinator of Faculty and Staff Disability Services. If an employee or student feels his/her rights under the Rehabilitation Act of 1973 and/or the Americans with Disabilities Act of 1990 have been violated, they may consult with the Office of Compliance and Equity Management and/or utilize the following procedures.

**Procedure for Resolution:** An allegation of discrimination and/or harassment against either an employee or graduate student who is employed by the university should be addressed to the Office of Compliance and Equity Management. An allegation against a student should be filed in the Office of the Vice President for Student Affairs.

An employee or student alleging discrimination and/or harassment is encouraged to discuss the allegation with the head of the department, as appropriate, in which the alleged discrimination occurred. This step is to facilitate an informal resolution of the matter whenever possible. In the event that an informal resolution is not reached, the student or employee may consult with the Office of Compliance and Equity Management to initiate a formal investigation.

The Office of Compliance and Equity Management will provide a complaint form, which the complainant will then complete and return. The complaint will describe the alleged discrimination and/or harassment, the specific type of discrimination and/or harassment being alleged, and name of person(s) against whom the complaint is being filed.

The Office of Compliance and Equity Management will acknowledge the receipt of the complaint in writing and will also notify in writing the following parties: the accused person and his/her department head/director, dean, vice president, and the president. When deemed appropriate, the complainant is then given the option to resolve the complaint through mediation rather than investigation. Only if both the complainant and accused agree to mediation will that option be utilized. In the event that either party declines mediation, the Office of Compliance and Equity Management will conduct an investigation of the alleged discrimination or harassment charges.

Following is the process for the investigation of complaints which have not been resolved through mediation:

A person designated by the Office of Compliance and Equity Management will initiate an investigation into the allegations. A typical investigation will involve meeting with the person filing the complaint, the person(s) named in the complaint, and with other persons who may have knowledge relevant to the investigation.

The Director of the Office of Compliance and Equity Management will receive a report of the investigation from the designated investigator. S/he will render a finding of sufficient or insufficient evidence to support the complaint. This determination will be based upon the evidence obtained as a result of the investigation process. The complainant and the accused will be notified of the finding in writing. The accused person's department head/director, dean, vice president, and the president will also be notified.

In the event that there is a finding of a violation of university policy, the department head/director of the accused will determine appropriate disciplinary sanctions, and will notify in writing the accused and the Office of Compliance and Equity Management of his/her decision. This written decision must be issued within fifteen working days of the date of the notice from the Office of Compliance and Equity Management. When someone of the rank of department head/director or higher serves as a party or witness in an investigation, the notice will be sent to that party/witness' immediate supervisor for determination of disciplinary sanctions. This is the conclusion of the internal procedures under this policy.

*Office of Compliance and Equity Management, Approved 03/02, Amended 06/07*

*President's Cabinet, Approved 04/01/02, Amended 06/07*

For additional information contact the Office of Compliance and Equity Management, 117 Gilchrist Hall, UNI, at (319) 273-2846 or visit [www.uni.edu/equity](http://www.uni.edu/equity).

# Undergraduate Degree Requirements

The University of Northern Iowa offers degrees at both the undergraduate and graduate levels. Graduate information is given on pages 61-79, and specific graduate major program requirements are listed within the Program Requirements section by department (pages 80-210). At the undergraduate level, the University of Northern Iowa offers four traditional baccalaureate degrees: the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Music, and the Bachelor of Science. The external degree of Bachelor of Liberal Studies is also offered by UNI, and details of this unique degree program are given on pages 54-55. Major goals in the programs leading to these degrees are the advancement of humane learning and the preparation of all students to cope intelligently, effectively, and reasonably with the complex and changing conditions of life in modern society. To attain these goals, while at the university, students are expected to make significant progress toward:

1. understanding themselves and the society in which they live,
2. developing the ability to read, write, and speak their own language well and to appreciate its literature,
3. gaining an acquaintance with the literature of another language and the culture of its people, preferably in the original, but certainly through the study of translations,
4. securing a thorough grounding in the history and cultural traditions of the modern world with a special sympathetic understanding for the economic, social, and political problems of our time,
5. acquiring an understanding of the principles and methods of the natural sciences and mathematics and the part they play in modern society,
6. developing the ability to perceive the values of the arts and derive an enjoyment from them,
7. acquiring a knowledge of how to care for their own health and physical environment and to take an intelligent interest in the health and welfare of the community in which they live, and
8. growing in the desire to secure knowledge.

To achieve these ends, students are obliged to take a variety of courses drawn from among the arts, humanities, philosophy, mathematics, and language, and from among the biological, physical, and social sciences. Concentration in a major field enables students to engage in intensive study, to think for themselves, and to exercise discriminating judgment. It prepares the student for more advanced work if s(he) decides to go on to graduate school, or for immediate employment. This emphasis on the academic program is not to exclude the contributions made by other parts of the university life to the substantial development of a student's personality - social and athletic activities, public speaking and dramatic arts, music, art, public affairs, or other programs.

The desired result of these degree programs is not an individual who conforms to society as it is or sees her/his own vocation within the narrow confines of the day-to-day occupation, but rather a person enriched in mind and spirit and so stimulated that this person will seek with eagerness to contribute to the benefit of the world in which s(he) lives. Such a program is desirable for all students whatever their future professions may be.

All credit hours stated in this catalog, for a program, assume students have **appropriate preparatory course work**. If a student's preparation is inadequate, additional course work may be necessary and may extend the length of the program and the time required to complete graduation requirements.

**For those who plan to become teachers, additional work is required in professional education.** This work seeks to enhance the student's interest in and commitment to teaching, to instill loyalty toward the profession, and to encourage the desire for continuous professional growth. The student acquires the skills, techniques, and understanding necessary to good teaching by studying current knowledge concerning the physical, emotional, and mental growth of children and youth, the ways that they

learn, and methods for guiding them to reach full potential. As part of her/his preparation, the student explores the mutual relationships and responsibilities of the teacher, the school, and the community.

The prospective teacher must also spend a significant part of her/his time in the area of learning chosen for concentration. The student's mastery of the subject matter of this area, its closely-related fields, and the skills and professional dispositions needed to present it effectively are essential aspects of successful teaching.

The teacher preparation program requires more hours to complete than many of the other programs in order to include the necessary professional work and to approximate, as far as possible in a four-year period, the other major goals previously listed. Students completing the teacher preparation program are strongly encouraged to continue their education beyond the bachelor's degree.

## Declaration of Major

### Degree Audit/Advisement Report

The declaration of a major is made through the department offering the major. The choice of major should be made as early as possible in the student's university career in order to complete the program and fulfill requirements for graduation. When the major is declared, the student is assigned an advisor in the major department and a *Declaration of Curriculum* with this information is filed by the student with the Office of the Registrar.

When students have declared a major, they are eligible for a **Degree Audit/Advisement Report**. This is prepared by the Office of the Registrar and made available to the student on their student portal. Degree audits are accessible via the web at [www.uni.edu/pos/](http://www.uni.edu/pos/) or <http://myuniverse.uni.edu>.

## UNI Plan of Study (POS)

[www.uni.edu/pos](http://www.uni.edu/pos)

The University of Northern Iowa's Plan of Study (POS) serves as a **planning and advising support system** for students and advisors. The Plan of Study (POS) was created to help undergraduate students better plan their overall educational experience and to help students graduate as efficiently as possible. The POS is an electronic planning tool to help students think ahead through their entire program and should help students make strategic decisions about the courses they take and when they take them.

This Plan of Study (POS) system brings the **degree audit, the official advising document**, to the web providing access to undergraduate students and advisors. Major and minor worksheets for both teaching and non teaching are also published online.

## UNI Grad Pact - Four-Year Graduation

The University of Northern Iowa, in response to a student body that is diverse in experiences, talents, expectations, and goals, has developed a "pact" that is designed to assist students in completing an undergraduate degree within four calendar years of their initial freshman enrollment. Students may follow many paths to graduation, with dozens of majors and concentrations offered through five undergraduate colleges. In addition, special programs can be tailored to the needs and interests students bring to the campus or discover once they are here. Students who wish to participate in the four-year graduation plan must average from 16 to 18 credits per semester (one quarter of the applicable credits for their major each year) and will need to make academic and personal choices that will result in graduation within four years.

UNI's four-year graduation plan is called UNI Grad Pact. Students

who enroll as freshmen with well-defined interests, in “pact-approved” majors, and who want to complete their undergraduate study as expeditiously as possible, are assured of being able to enroll in courses allowing graduation in four calendar years. UNI Grad Pact is an agreement between the university and those students who choose to participate in the plan.

Students accept responsibility for monitoring their own progress toward degrees and for making choices that will allow them to graduate within four calendar years. The university is responsible for maintaining systems of advising so that students can track their progress, and agrees to provide the needed courses or their equivalents.

The university continues to encourage breadth and exploration as essential parts of a university education. UNI Grad Pact is designed to assure that students are carefully guided in their course choices while still benefiting from the rich educational opportunities offered by the university. Those students who conclude that UNI Grad Pact does not meet their academic and/or personal goals are encouraged to develop, in consultation with their academic advisor, a plan and timetable for completing the courses in their major that will allow them to achieve their individual academic, career, professional, and personal aspirations. Those students who do not participate in the plan will still benefit from descriptions of recommended patterns of progress toward degrees and enhanced advising services that will be available to all students.

## General Conditions

1. Students must enter the university as freshmen with appropriate high school preparation to begin a four-year graduation plan.
2. Students must sign up for UNI Grad Pact and declare their interest in a major that qualifies for the four-year plan.
3. Students are responsible for meeting deadlines and requirements of the pact. Therefore, students must regularly monitor their progress toward graduation. Such monitoring includes meeting each semester, in a timely manner prior to registration, with their academic advisor.
4. For courses required by the major and for graduation, students must accept any available section that can be accommodated in their course schedule and must register at their assigned registration time.
5. Students must be admitted and remain in good academic standing to the colleges and departments which offer their major.
6. Students may change majors and remain in the program if, at the time the student decides to make the change, he or she can still meet the requirements of the new major and graduate within the four calendar years. Students may enroll in an additional major or in programs leading to additional licensing and certification, and remain in UNI Grad Pact, if they can complete these additional requirements and those of their first major within the four calendar years. Students must see their academic advisor in a timely manner in order to accomplish these changes or additions.
7. Students must accept responsibility for timely annual application for all necessary financial assistance.
8. Students must complete a minimum of one quarter of the applicable credits for their major each year (including summer sessions).
9. If, after working with their advisor, it appears that graduation may be delayed due to unavailability of a course, students must notify the Office of the Provost, Associate Provost for Academic Affairs, in writing prior to the beginning of classes in the term in which the course would be needed.

If the student meets all the conditions of the four-year plan but is unable to graduate due to the unavailability of a course, the university will offer one of the following:

- A. Allow the student to graduate in four years by substituting a differ-

ent course or an independent study assignment, as determined by the department and the college offering the student's major.

- B. Allow the student to graduate in four years by waiving the requirement to be met by the unavailable course, as determined by the department and college offering the student's major.
- C. Allow the unavailability of a course to delay the student from graduating in four years, in which case the university will waive UNI tuition and mandatory fees for this course in order for the student to graduate within the next year.

These procedures will be the exclusive remedy for the four-year plan (UNI Grad Pact) agreement. The university is under no obligation to provide one of these adjustments unless the student submits a written request for an accommodation to the Provost prior to the beginning of classes in the last term of the student's four-year plan.

## Undergraduate Curricula

### Bachelor of Arts Degree

Two programs leading to the Bachelor of Arts degree are available.

#### A. Bachelor of Arts - Teaching Program - 120 semester hours

**Note:** Programs requiring more than 120 semester hours to graduate (see major requirements) are identified and may include up to 144 semester hours.

On this program students are prepared as:

1. Secondary teachers of art, business, biology, chemistry, communications, earth science, geography, English, foreign languages, health, industrial arts, mathematics, modern languages, music, physical education, physics, science, social science subjects (economics, history, etc.), and speech.
2. Special teachers of art, industrial arts, music, physical education, special education, and speech.
3. Early childhood and elementary teachers (kindergarten through sixth grade).
4. Middle level education teachers in various areas of instruction.

#### B. Bachelor of Arts - 120 semester hours

**Note:** Programs requiring more than 120 semester hours (see major requirements) are identified.

On this program students are prepared in the following areas:

1. **Liberal Arts** - accounting, art, biology, business, chemistry and biochemistry, communications, computer science, criminology, design, textiles, gerontology & family studies, economics, English, finance, geology, health, industrial technology, leisure services, management, marketing, mathematics, modern languages, music, philosophy, physical education, physics, psychology, speech, social science, social work, science, and theatre.
2. **Program for Registered Nurses.**

A student certified or licensed as a registered nurse (R.N.) may be recommended for a Bachelor of Arts degree with a major in General Studies in accordance with the following provisions:

- a. A student who has taken the work required for certification or licensure, including the successful completion of required agency examinations, will have 34-45 semester hours accepted for transfer to apply on the bachelor's degree. Such work may have been earned in a two-year associate degree program or in an approved hospital diploma program.

These hours of transfer work may be affected by a general university requirement that a maximum of 65

## Undergraduate Degree Requirements

semester hours may be accepted from a two-year institution. The 34-45 semester hours of transfer credit for R.N. certification is considered part of this limit. Thus, a student who has earned more than 20 semester hours of other two-year college credit may not be able to use all of the nursing credits for graduation requirements. Such individuals should consult the Director of Admissions concerning the application of this requirement in her/his situation.

- b. Eleven of the total number of semester hours accepted as advanced standing for R.N. certification are applied to Liberal Arts Core requirements in the areas of biology, chemistry, and interpersonal relationships. Specifically, the 11 hours would be dispersed in the following way:

*Category 4. Natural Science and Technology*

(a) Life Sciences - 3 hrs.

(b) Physical Sciences - 3 hrs.

*Category 5. Social Science*

(a) Group A (1 course) - 2-3 hrs.

(b) Group B (1 course) - 2-3 hrs.

One course from Group A, B, or C is required.

The student will be held to courses required in the remaining Liberal Arts Core categories.

- c. The student shall complete a minimum of 15 hours of 100-level courses from each of two of the five colleges for a total of 30 hours. The student's program will be planned in consultation with the Individual Studies Program Coordinator.
- d. As an alternative to item c, the student may complete the requirements for a major offered by any department and graduate with a Bachelor of Arts in the chosen major.
- e. A student may not earn duplicate credit for courses taken at another institution and judged to be equivalent.
- f. The student shall earn enough credit in elective courses to have a total of 120 hours of academic credit.
- g. This program is under the jurisdiction and general supervision of Individual Studies. Students entering this program will confer with the Program Coordinator.

This degree program is not recommended for students intending to work in nursing education at the collegiate level, in such areas as public health, or psychiatric nursing, nor those for whom the primary intention is graduate work in nursing.

### 3. Joint Program

Students interested in one of the following professional programs may complete the basic work on the University of Northern Iowa campus and transfer to UNI a year's credit from the professional school to complete the requirements for a Bachelor of Arts degree at UNI:

Chiropractic	Physician Assistant
Cytotechnology	Pharmacy
Dentistry	Physical Therapy
Medicine	Podiatry
Medical Technology	Veterinary
Optometry	

A student shall complete at UNI all the requirements in the Liberal Arts Core (45 semester hours) and the requirements for the B.A. (Joint Program Option) in Biology and have a total of at least 92 semester hours at UNI. The professional courses transferred must bring the total hours to at least 120 semester hours. Credit is accepted only from professional schools which are fully accredited. Details of the B.A. (Joint Program Option)

are available from the Biology Department.

The student must know the requirements for entrance to the professional school so as to be able to take at the University of Northern Iowa the work required for admission while at the same time meeting UNI degree requirements. The student will work with the Biology Department advisor who will help in the selection of proper courses.

Acceptance of credit from professional schools of chiropractic, cytotechnology, dentistry, medicine, optometry, osteopathy, pharmacy, physician assistant, physical therapy, podiatry, and veterinary medicine toward meeting part of degree requirements:

A student who has completed three years or more of college work with a minimum of 92 semester hours, of which at least the last 30 hours of work were completed at the University of Northern Iowa before admission to an accredited professional college, may use professional credit to satisfy the remaining hours required for the baccalaureate degree at the University of Northern Iowa. The student shall have completed all of the specific requirements for the B.A. (Joint Program Option).

### C. Other Programs

#### 1. Pre-professional.

Suggested programs are available for those planning to complete programs in allied health, biomedical, chiropractic, dentistry, engineering, law, medical technology, medicine, mortuary science, nursing, optometry, pharmacy, physical therapy, physician assistant, podiatry, theology, and veterinary medicine. These program guides may be requested from the Office of Admissions or visit the Web site [www.uni.edu/majors/other/preprograms](http://www.uni.edu/majors/other/preprograms).

#### 2. Physics/Engineering Dual-Degree Program.

Qualified students may pursue a dual-degree program leading to a B.S. Applied Physics degree from the University of Northern Iowa and a B.S. Engineering degree from Iowa State University or the University of Iowa. For details, please refer to the section of this catalog under Physics, Bachelor of Science Degree Programs, Applied Physics/Engineering Dual-Degree Major, on page 190.

#### 3. Cooperative Programs.

- a. The University of Northern Iowa offers prerequisite coursework for students planning to apply to other colleges for the Bachelor of Science in Nursing degree. Allen College has a cooperative agreement with UNI for students admitted into their nursing and radiography programs.
- b. Three-year Program in Medical Technology. The University of Northern Iowa cooperates with St. Luke's Hospital in Cedar Rapids and University of Iowa Medical School in Iowa City, to offer the first three years of work; St. Luke's Hospital in Cedar Rapids and University of Iowa Medical School in Iowa City offer the fourth year.
- c. Three-year Program in Cytotechnology. The University of Northern Iowa cooperates with Mayo School of Health-Related Sciences, Rochester, Minnesota; School of Cytotechnology, Wisconsin State Laboratory of Hygiene, Madison, Wisconsin; and Mercy School of Cytotechnology, Des Moines, Iowa. The first three years of work are done at UNI; during the fourth year, cytotechnology will be taken at one of the three cooperating schools.
- d. Three-year program in chiropractic medicine with Logan College of Chiropractic, Chesterfield, MO; Palmer College of Chiropractic, Davenport, IA. The first three years of work are done at UNI; during the fourth year, chiropractic

classes will be taken at the cooperating school.

A student who expects to transfer to another institution should declare her/his special interest at the time of admission. The student will be assigned to an advisor who is familiar with the type of program being sought. Before seeing her/his advisor for the first time, the student should secure a current copy of the catalog of the school to which the transfer is planned.

4. **Community College Partnerships.** The A.A. Degree from all Iowa community colleges fulfills the majority of the Liberal Arts requirements at UNI. In addition, other partnerships, also known as articulation agreements, have been developed between UNI and all Iowa community colleges for some UNI baccalaureate degree programs. These agreements show specific courses that need to be taken at each school to complete a program. If available, an articulation agreement typically results in the quickest route to graduation for a transfer student.

These partnerships are often known as 2+2 programs, although the time to complete a degree may take more than four years depending on individual circumstances. Contact the UNI Office of Admissions to find out if an agreement is available in a specific area of interest.

In certain instances, the UNI portion of a 2+2 program is offered at the community college. For example, several B.A. degree programs are offered on the Des Moines Area Community College campus in Carroll, Iowa for students who are place bound or career changing. These include B.A. degrees in elementary education teaching, early childhood education endorsement, and technology management/general business.

When offered on-site, the second two years are taught by UNI faculty through a mix of delivery systems including on-site classes, classes over the Iowa Communication Network, or Web-based course work. All 2+2 programs offer the same classes as programs offered on the UNI campus.

For more information contact the UNI Office of Admissions, Cedar Falls, IA; phone 319-273-2281.

5. **Army Reserve Officers' Training Corps (ROTC)**
  - a. **The Four-Year Program.** The Army ROTC Four-Year Program consists of two parts: the Basic Course and the Advanced Course.

The Basic Course is usually taken during the freshman and sophomore years. Students taking a Basic Course class do not incur a military service obligation (except for scholarship students). The Basic Course teaches the student leadership, oral and written communication skills, survival skills, and basic soldier skills. There is no prerequisite that the basic courses be taken in sequence; however, a student must complete the basic course or the equivalent (see paragraph b. below), before progressing into the advanced course.

The Advanced Course is usually taken during the junior and senior years. Students enrolled and contracted in the Advanced Course will incur a military obligation (either active or reserve). The Advanced Course teaches the student about small unit tactics, leadership, ethics, management of military organizations and resources, as well as military law. The Department of the Army will pay all contracted cadets up to \$4,000 a year during the last two years of the program.

- b. **Accelerated Program.** The accelerated program is designed specifically to fill the needs of the students who did not take Army ROTC during the first two years. Placement credit for the basic course may be obtained in sev-

eral ways. The most common methods are prior military service, enlisted basic training, or successful completion of a six-week summer ROTC basic camp.

- c. **The Simultaneous Membership Program.** The Simultaneous Membership Program (SMP) allows contracted cadets to be members of the Iowa Army National Guard or the Army Reserve and Army ROTC simultaneously.

ROTC SMP cadets are paid at the rate of a Sergeant (E-5) for their one weekend a month training assemblies, plus up to \$4,000 a year subsistence allowance from the ROTC Advanced Course, and New G.I. Bill educational assistance benefits. Many ROTC SMP cadets also qualify for the Student Loan Repayment Program.

- d. **ROTC Scholarships.** U.S. Army ROTC three- and four-year scholarships are available. They cover up to \$20,000 per year toward tuition and required educational fees at UNI, and provide \$600 per semester for textbooks, supplies, and equipment.

Army ROTC scholarships also provide a subsistence allowance of up to \$4,000 for each school year that the scholarships are in effect. Winning and accepting an ROTC scholarship does not preclude accepting other scholarships. Additional ROTC scholarship information is contained on page 19-20.

- e. **Military Science Minor.** The Military Science Department offers a minor in Military Science. Requirements for the minor are 33-39 hours and include Military Science courses as well as elective courses. More information is contained on page 172-173.
  - f. **Additional Information.** Additional information regarding the U.S. Army ROTC program is contained under the section titled Military Science, on page 172. The specific courses offered by the Department of Military Science are listed under the Department of Military Science on pages 214-215. For additional information, write to the University of Northern Iowa, Department of Military Science, Cedar Falls, IA 50614-0142; come in person to West Gym (Room 203), UNI campus; or call the student advisor at 319-273-6178 or 319-273-6337. Please visit our Web site [www.uni.edu/rotc](http://www.uni.edu/rotc).

## Bachelor of Arts - Liberal Arts Curricula

A minimum of 120 semester hours is required to complete the B.A. Liberal Arts degree. All candidates on this program will complete the following pattern:

	Semester Hours
Liberal Arts Core.....	Minimum 45
Major, minor, foreign language, electives .....	75
	Minimum 120*

Not later than the beginning of the sophomore year, each student enrolled in this program will choose one major from the list below. A knowledge of a foreign language is required or recommended for several majors. Specific information regarding the foreign language requirements will be found with the departmental listings. It is recommended that the student include in her/his electives a course in the literature of some language or languages other than English (in translation if not in the original).

\*Programs requiring more than 120 hours are identified (see specific major requirements).

## Undergraduate Degree Requirements

### Majors and Minors

Specific requirements for the various majors and minors will be found with the departmental listings.

#### Majors

Accounting	Gerontology
American Studies	German
Anthropology	Graphic Communications
Art	Health Promotion
Asian Studies	History
Athletic Training	Humanities
Biochemistry	Individual Studies
Biology	Interior Design
Biology: Ecology and Systematics Emphasis	Leisure, Youth and Human Services
Biology: Biomedical Emphasis	Management
Biology: Microbiology Emphasis	Management Information Systems
Biology: Plant Bioscience Emphasis	Marketing
Biotechnology	Mathematics
Chemistry	Mathematics-Computer Science Emphasis
Chemistry-Marketing	Mathematics-Statistics and Actuarial Science
Communication	Modern Languages Dual Major
Communication/Electronic Media	Movement and Exercise Science
Communication/Public Relations	Music
Communicative Disorders	Nanoscience and Nanotechnology
Computer Information Systems	Philosophy
Computer Science	Physics
Criminology	Political Communication
Earth Science	Political Science
Earth Science: Interpretive Naturalist Emphasis	Psychology
Economics	Public Administration
English	Real Estate
European Studies	Russian
Family Services	Social Work
Finance	Sociology
French Studies	Spanish
General Studies	Study of Religion
General Studies for Registered Nurses	Teaching English to Speakers of Other Languages (TESOL)
Geography	Technology Education and Train- ing
Geography: Environmental Emphasis	Technology Management
Geology	Textile and Apparel
Geology: Environmental Science Emphasis	Theatre

#### Minors

Accounting	International Affairs
Accounting-Business	International Business
American Ethnic Studies	International Business (non-business majors)
Anthropology	Jazz Studies
Art	Leadership Studies
Asian Studies	Leisure Services
Astronomy	Marketing
Bioinformatics	Mathematics
Biology	Media
Business Communication	Meteorology
Chemistry	Military Science
Communication	Music
Communication/Journalism	Nanoscience and Nanotechnology
Communication/Public Relations	Natural History Interpretation
Comparative Literature	Philosophy
Computer Information Systems	Physics
Computer Science	Political Science
Criminology	Politics and Law
Dance	Portuguese
Earth Science	Psychology
Economics	Real Estate
Educational Technology	Real Estate-Business
Electrical and Electronics Technology (EET)	Religion
English	Russian
Environmental Studies	Russian and East European Studies
Ethics	Sociology
Family Studies	Spanish
Finance (for Business and Non-Business Majors)	Speech-Language-Hearing Sciences
French Studies	Statistics and Actuarial Science
General Business Concepts	Teaching English to Speakers of Other Languages (TESOL)
Geography	Technology Management
Geology	Textile and Apparel
German	Theatre
Gerontology	Women's and Gender Studies
Graphic Communications	Writing
Health Promotion	Youth Services Administration
History	
Humanities	

### Bachelor of Arts - Teaching Program Curricula

The minimum total hours to graduate with a B.A. Teaching degree is 120 hours. Majors requiring more than 120 semester hours to graduate are identified (see specific major requirements). All candidates on this program will choose one of the following patterns not later than the beginning of the sophomore year.

- A. Preparation for teaching in the secondary school or in special subjects.

#### Semester Hours

Liberal Arts Core .....	Minimum 45
Professional Education Requirement .....	32
Major, minor, electives .....	*43-67

120-144





- B. Preparation for teaching in the elementary school (kindergarten and grades 1-6).

**Semester Hours**

Liberal Arts Core .....	Minimum 45
Professional Education Requirement .....	33
Major requirements.....	34-36
Endorsement minor/Concentration area.....	*13-30

125-144

- C. Preparation for teaching in early childhood education (pre-K through grade 3).

**Semester Hours**

Liberal Arts Core .....	Minimum 45
Professional Education Requirement .....	33
Major requirements.....	40
Electives.....	2

120

\*Number of hours determined by declared program area. See appropriate major within Program Requirements section of this catalog for specific requirements.

## Professional Education Requirements

All candidates for the Bachelor of Arts-Teaching program are required to take the courses in professional education and a minimum of one departmental methods course. In addition, all candidates must be admitted to the Teacher Education Program. Admission procedures are initiated at a required orientation session during Level I of the Professional Education sequence. PK-12 schools may require proof of a background check prior to entering their buildings to work with students. Therefore, all candidates are strongly encouraged to complete a background check with the Department of Criminal Investigation prior to the first field experience. Teacher candidates will be expected to provide proof of a DCI check at Price Laboratory School.

**Semester Hours**

220:150	Meeting the Needs of Diverse Learners in Classrooms .....	2
240:020	Secondary Educational Technology and Design or	
240:031	Educational Technology and Design .....	2-3
280:170g	Human Relations: Awareness and Applications.....	3
(Before enrolling in 280:170g, the student must be fully admitted to the Teacher Education Program.)		

**Level I**

200:017	Field Experience: Exploring Teaching .....	1
200:030	Dynamics of Human Development.....	3

**Level II**

(Before enrolling in Level II, the student must be fully admitted to the Teacher Education Program.)

200:128	Field Experience: Teacher as Change Agent .....	1
---------	---	---

200:148	Learning and Instruction in Classroom Contexts .....	3
250:150	Classroom Assessment.....	2

**Level III**

(Before enrolling in Level III, the student must be fully admitted to the Teacher Education Program.)

260:119	Schools and American Society .....	3
---------	------------------------------------	---

**(Student Teaching)**

(Before enrolling in Student Teaching, the student must be fully admitted to the Teacher Education Program.)

280:1xx	Student Teaching (course number denotes area in which experience is gained: 280:132, 134, 135,	
---------	--	--

137, 138, 139, 140, 250) ..... 12  
32-33

Program completion may include evaluations/assessments prescribed by the major, the Council on Teacher Education, or the Iowa Board of Educational Examiners.

## Professional Education Waivers/ Substitutions

1. Industrial Technology majors will be waived from 240:020. A student changing to a different education major from Industrial Technology would be required to complete 240:020.
2. Physical Education majors may substitute 420:174 for 250:150. A Physical Education major changing to a different education major from Physical Education would be required to complete 250:150.
3. Physical Education majors will be waived from 220:150. A student changing to a different education major from Physical Education would be required to complete 220:150.
4. Music Education majors will be waived from 250:150. A student changing to a different education major from Music Education would be required to complete 250:150.
5. Music Education majors will be waived from 240:020. A student changing to a different education major from Music Education would be required to complete 240:020.
6. Art Education majors will be waived from 240:020. A student changing to a different education major from Art Education would be required to complete 240:020.
7. Secondary science teaching majors (Science Education, Biology, Chemistry, Earth Science, and Physics) will be waived from 240:020. A student changing to a different education major from Science Education, Biology, Chemistry, Earth Science, and Physics would be required to complete 240:020.
8. Secondary business education teaching majors will be waived from 240:020. A student changing to a different education major from business education would be required to complete 240:020 or 240:031, depending on level of major.
9. Modern Language education majors will be waived from 240:020. A student changing to a different education major from modern language would be required to complete 240:020 or 240:031, depending on level of major.

## Admission to the Teacher Education Program

To be admitted to the Teacher Education Program, a student must fulfill the following requirements prior to registration for Level II courses:

- a. declare a teaching major;
- b. earn at least 24 semester hours of credit;
- c. earn at least a 2.50 cumulative GPA;
- d. file an acceptable Application for Admission to Teacher Education (available: SEC 159A or online at [www.uni.edu/teached](http://www.uni.edu/teached), Information for Students, Forms);
- e. complete College Writing and Research (620:005) or the equivalent with a grade of C- (1.67) or better (effective January 1, 2009);
- f. complete Oral Communication (48C:001) or the equivalent with a grade of C- (1.67) or better (effective January 1, 2009);
- g. Complete the Liberal Arts Core Category 1: Core Competency C (Quantitative Techniques and Understanding) math course (or equivalent) with a grade of C- (1.67) or better (effective January 1, 2009);
- h. pass the basic skills test: PPST;

## Undergraduate Degree Requirements

- i. demonstrate Acceptable Dispositions (absence of Notification of Concern)
- j. fulfill any additional requirements as prescribed by the Council on Teacher Education or the Iowa Board of Educational Examiners.

In approving admission to the Teacher Education Program, consideration is given to the scholarship, health, character, personality, and leadership potential of the applicant. Admission to the Teacher Education Program is a privilege rather than a right. Thus, admission to the Program is not guaranteed to all who apply. Students may appeal the decision to deny admittance to the Teacher Education Program or the decision to place them on academic probation in the Teacher Education Program when the decision is based on extreme circumstances over which the student has no control. In such cases, the student should contact the Associate Director of Teacher Education to set up an appointment to begin the appeal process.

UNI Teacher Education majors are expected to keep an active e-mail account, using the \_\_\_\_\_@uni.edu address and to check this address at least twice weekly.

Information concerning fee payments for tests, registration procedures, and test dates are available by contacting Examination and Evaluation Services, 007 Integrated Teaching and Technology Center, UNI, 319-273-6023 or the Director of Teacher Education, 159A Schindler Education Center, UNI, 319-273-2265.

## Field and Clinical Experiences

At the University of Northern Iowa experiences in teaching and the observation of teaching are an integral part of the teacher education curriculum. The emphasis on experimentation and creative approaches gives the student insight into turning theory into practice. The professional laboratory experiences include field experiences and participation, with supervised observations, that culminate in the actual period of student teaching.

Supervised observations give the student an opportunity to see the teaching-learning operation without becoming involved in the on-going activity itself. In the field experience and participation experiences, the student takes an active part under direction and guidance in the teaching-learning situation or other community activities.

Student involvement in all of the field and clinical experiences in teacher education is vital to the preparation of the prospective teacher. Observation and participation experiences are provided through specific courses in the Professional Education Program and through individual departments offering teaching majors. These experiences give the student the background needed to make professional course work and student teaching more meaningful.

All teacher candidates are strongly encouraged to complete a background check with the Iowa Department of Criminal Investigation prior to the first field experience and to carry proof of this check with them to all school sites. (See [www.uni.edu/teached](http://www.uni.edu/teached), Information for Students, for procedures.)

## Student Teaching

Student teaching is a period of guided teaching which is a full semester in length. During this time, the student assumes increasing responsibility for the teaching-learning activities in the classroom. The student receives twelve (12) semester hours of credit for student teaching, evaluated on a credit/no-credit/withdrawal system. Interinstitutional student teachers who enroll at UNI, including those on the Regents' Universities Student Exchange Program, may be evaluated on a graded basis (e.g., A, B, C, D, F) upon written request at the time of application from the Registrar of the home institution.

**To be admitted to student teaching, a student must demonstrate:**

- a. FULL admission to the teacher education program;
- b. a certificate in High Risk Behaviors/Substance Abuse;
- c. a cumulative GPA of 2.50 or higher on work at all colleges and universities;
- d. a UNI GPA of 2.50 or higher;
- e. a 2.50 GPA in the academic major or departmental approval when the GPA is deficient because of circumstances beyond the student's control;
- f. a GPA of 2.50 or higher and a grade of C- (1.67) or higher in each Professional Education Sequence course, effective January 1, 2009;
- g. completion of all methods courses listed as prerequisites for student teaching with a grade of C (2.00) or higher as well as other departmental requirements.
- h. Mathematics majors are required to have a major GPA of 2.25 or higher AND departmental approval; and
- i. Health Education and Physical Education majors and minors are required to have current First Aid and CPR certification prior to student teaching.

**The final student teacher assignment is based upon fulfillment of all established requirements stated above, successful completion of Level II, acceptable professional dispositions, and availability of placement.**

## Exit Requirements

To be recommended for teaching licensure in Iowa, a student who graduates from the UNI Teacher Education Program must satisfactorily complete the major and/or minor and the teacher education requirements, have an overall GPA of 2.50 and a cumulative UNI GPA of 2.50, submit fingerprint and waiver cards for mandated background checks, and pass additional exit requirements as may be prescribed by the major, the Council on Teacher Education, or the Iowa Board of Educational Examiners including, but not limited to, demonstration of acceptable professional dispositions. A student not meeting these requirements may graduate but will not receive recommendation for licensure.

Many states, including Iowa, now require successful completion of designated examinations to receive a teaching license. Information concerning fee payments for tests, registration procedures, and test dates are available by contacting Examination and Evaluation Services, 007 Integrated Teaching and Technology Center, UNI 319-273-6023.

For additional information on teacher licensure, see pages 59-60.

## Progressing Through the Teacher Education Program

This section provides an overview of practices that may delay a student from progressing through the Teacher Education Program in a timely fashion. Specific guidelines for addressing these delays are found in the Council on Teacher Education Handbook, Teacher Candidate Performance Review Committee: Policies and Procedures.

Four *Decision Points* are established to mark progression through the Teacher Education Program: 1) admission to the university, 2) admission to the Teacher Education Program, 3) admission to student teaching, and 4) recommendation for licensure. Professional Education Faculty members, *staff*, and/or *administrators* may delay a student in moving through the Decision Points if a student demonstrates deficiencies in meeting course or Program Standards. To correct the deficiencies, faculty, *staff*, and/or *administrators* may file a Notification of Concern, indicating how the student can remedy the deficiency. Only after the deficiencies are resolved may the student expect to move forward in the Program and be recommended for a teaching license.

## Suspension from the Teacher Education Program:

Any student who has multiple unresolved Notifications of Concern indicating significant deficiencies in meeting Standards for the Teacher Education Program may be considered for suspension from the Program. Suspension from the Program is determined by the Teacher Candidate Professional Review Committee and is for a minimum of one calendar year. Only the most extreme circumstances would warrant consideration for re-admission before one calendar year has elapsed. At the time of suspension, students are informed of the conditions and procedures for re-admission to the Program. Students may appeal the process by which such decision was made by making a written request to the Office of the Provost.

*Emergency Suspension:* Any student may be suspended *immediately* by the Director of Teacher Education for extreme, unforeseen circumstances such as endangerment of students, disruption of schools/classes, felonious behaviors, or ethical violations. Such suspensions will be referred to university officials and may become permanent.

## Re-admission to the Teacher Education Program:

Students wishing to be re-admitted to the Teacher Education Program should seek probationary re-admission according to the following schedule: apply by February 1 for Summer and Fall probationary re-admission; apply by October 1 for Spring probationary re-admission. Applications are found at [www.uni.edu/teached](http://www.uni.edu/teached), Information for Students, University of Northern Iowa Application for Probationary Re-admission to the Teacher Education Program.

The decision to re-admit students on a probationary status will be made by the Teacher Candidate Professional Review Committee. Conditions for probationary re-admission are determined on a case-by-case basis by the Committee and in accordance with conditions determined at the time of suspension. Upon successful completion of the probationary period, the Teacher Candidate Professional Review Committee determines conditions for full re-admission and may recommend such to the Council on Teacher Education, which makes the final decision.

Suspension for a second time is considered permanent. Only the most extreme circumstances would warrant consideration for re-admission a second time. Reconsideration is determined by the Council on Teacher Education.

## Majors and Minors - Teaching

Elementary majors may choose either a university-approved endorsement minor or a 24-hour area of concentration (see pages 110-111 for possible choices).

Each student preparing to teach in the secondary school or in a special subject will choose a major not later than the beginning of the sophomore year. The student will also select at least one minor if a minor requirement is indicated under the description of the chosen major. Even if not required, a student may select a second major or one or more minors.

Approved majors and minors will be chosen from the fields listed below.

### Majors

All Science	Middle Level Education Dual
Anthropology	Major
Art Education	Middle/Junior High School
Biology	Science
Business	Modern Languages Dual Major
Chemistry	Physical Education
Communication-Theatre	Physics
Early Childhood Education	Political Science

Earth Science  
Elementary Education  
English  
French Studies  
Geography  
German  
Health Education  
History  
Mathematics

### Minors

Anthropology	Instructional Strategist II: Mild/ Moderate 5-12
Art	Literacy Education
Art (K-8)	Mathematics
Basic Science (K-8)	Mathematics (K-8)
Biology	Modern Languages (K-8)
Business	Physical Education-Elementary Teaching
Chemistry	Physics
Coaching	Political Science
Communication-Theatre	Portuguese
Early Childhood Special Education	Psychology
Earth Science	Russian
Economics	School Teacher Librarian
Elementary School Teacher Librarian (K-8)	Severe Disabilities
English	Social Studies (K-8)
French Studies	Spanish
Geography	Teacher of Students With Visual Impairments (TVIS)
German	Teaching English to Speakers of Other Languages (TESOL)
Health Education	Technology Education and Training
History	
History (K-8)	
Instructional Strategist I: Mild/ Moderate K-8	

## Bachelor of Fine Arts Degree

The Bachelor of Fine Arts degree is generally recognized as the professional undergraduate degree in the visual arts. Students are required to pass a portfolio review for admission to the B.F.A. program in the Department of Art. Once admitted, students opt for an emphasis in one of the nine studio areas in the Department of Art: ceramics, drawing, graphic design, jewelry/metals, painting, performance art, photography, printmaking, and sculpture. During their senior year, candidates for this degree are required to present an exhibition of their creative works demonstrating competency in the studio arts. (See Department of Art, page 88, for detailed information about this program.)

A minimum of 130 semester hours is required to complete the B.F.A. degree. This degree does not provide for licensure to teach; additional hours are necessary to meet licensure requirements.

### Bachelor of Fine Arts Degree Curricula

Candidates for the Bachelor of Fine Arts degree will complete the following pattern of work:

Art Major	Semester Hours
Liberal Arts Core .....	45
Major Requirements.....	77
General Electives.....	8
B.F.A. Senior Exhibition .....	0
	130

### Major

Art: Studio B.F.A.

Bachelor of Music Degree

Majors in this degree program have the choice of an educational major or two professional majors. The Music Education major carries licensure to teach music in grades K-8 and 5-12. The Performance major with emphases in voice, piano, organ, and band-orchestral instruments, and the Composition-Theory major are professional programs designed to prepare students for careers as artists-performers or composers, or for entrance to graduate schools where further excellence in a performance area might be pursued. Students earning the Bachelor of Music degree are prepared as performers, college teachers, and in all areas where a high degree of music or performing skill is required.

Bachelor of Music Degree Curricula

All candidates for the Bachelor of Music degree will complete a pattern similar to the following. A minimum of 120 semester hours is required for the Bachelor of Music degree. However, total hours to graduate may range from 121-149 depending on the major chosen (see pages 183-184 for specific major requirements).

	Semester Hours
Liberal Arts Core .....	42
Music requirements (applied, theory, history and literature, conducting, ensembles, recital, composition, electives) .....	66-80
General electives/professional sequence* .....	0-36

The following majors are offered on this degree program:  
Composition-Theory - 79 hours  
Music Education (teaching) - 66, 67, or 77 hours  
Performance (voice, piano, organ, band-orchestral instruments) - 80 hours

\*Music Education majors must also complete the Professional Education Requirements (see page 51). The minimum semester-hour requirements vary with the specialization chosen. The Music Education major carries licensure to teach in grades K-8 and 5-12.

The approval of the faculty, and the Associate Director of the School of Music must be secured before a student is admitted formally to this degree program. All students who have been admitted to the school and wish to pursue a music major curriculum must undertake a common core of required courses during the freshman year. During the second semester of the freshman year, an extensive evaluation of each music major will be conducted. In addition to the entrance audition required of all students who intend to major in music, transfer students are required to take a placement exam in music theory or start with level I in Theory, Aural Training, and Sight Singing. The music faculty will evaluate the performance in these areas to determine School of Music admissibility for each transfer student.

Participation in a performance organization such as band, chorus, orchestra, and other ensembles, is required of all degree students every semester in residence.

(See the School of Music, page 181, for additional information.)

Majors

Composition-Theory  
Music Education  
Performance

Bachelor of Science Degree Curricula

The Bachelor of Science degree should be elected by those students who are preparing for careers in areas where effective application of knowledge and training requires a higher degree of concentration in subject matter and cognate areas, particularly in advanced-level course work. This degree is especially appropriate for students planning post-baccalaureate study in graduate or professional schools.

Since this degree assumes a higher degree of concentration in subject matter, a major leading to this degree will ordinarily require at least eight 100-level semester hours of credit more than an identically-named major leading to a Bachelor of Arts degree. A minimum of 126 semester hours is required for the Bachelor of Science degree.

Requirements include:

- 1. a minimum of 56 hours in the subject and cognate areas with:
  - a. at least 36 hours in the subject area;
  - b. at least one 100-level course in cognate areas;
- 2. the completion of undergraduate research or internship carrying 1-2 semester hours of credit applicable to either the subject or cognate area(s). This project should result in the completion of a written report. The major department must certify to the Registrar that the research requirement has been met before the degree is granted;
- 3. the completion of the Liberal Arts Core requirements selected from courses included in the six Liberal Arts Core categories.

Majors

Air Quality  
Applied Physics  
Biochemistry  
Bioinformatics  
Biology  
Chemistry  
Computer Science  
Construction Management  
Electrical and Information Engineering Technology (EIET)  
Geology  
Manufacturing Technology  
Networking and System Administration  
Physics

Bachelor of Liberal Studies Degree

The Bachelor of Liberal Studies (B.L.S.) program is offered by the three Iowa Regents' Universities: University of Northern Iowa, Iowa State University, and the University of Iowa. The purpose of the B.L.S. is to offer educational opportunities to those students who are unable to attend college as full-time, on-campus students. Students may complete the degree at their own pace without attending on-campus courses. Students often use guided independent study and other distance learning opportunities to earn credit.

**Admission to the Program.** Each student entering the program must have earned:

- 1. an Associate of Arts degree from an accredited, two-year college, or at least 60 semester hours of college credit acceptable toward graduation at UNI;
- 2. a minimum 2.00 grade point average.

**Total Credit Requirements.** A total of at least 120 semester hours of credit, including transferable credit earned, is required for graduation. The total must fulfill the following specifications:

- 1. 45 semester hours of credit earned at four-year colleges in courses defined as upper-level at the colleges in which courses are taken.

At the University of Northern Iowa, upper-level courses are those numbered 100 and above;

2. at least 30 hours of credit earned in the junior and/or senior years in courses at UNI. This total may include nonresidence credit.

**Liberal Arts Core Requirements.** Students must meet the basic undergraduate core requirements as specified and determined by the policies of the degree-granting institution.

**Program Distribution Requirements.** To insure sufficient breadth of study, each student's program must include, in addition to the credit used to fulfill the Liberal Arts Core requirements previously stated, a minimum of 12 semester hours of credit in each of the three (3) areas selected from the following list. Of the total 36 semester hours of credit applied to fulfill this requirement, 24 semester hours must be in upper-level credits as defined by the institution in which the courses are taken, with at least 6 semester hours of upper-level credits in each of the three areas chosen.

- a) Humanities
- b) Communications and Arts
- c) Natural Sciences and Mathematics
- d) Social Sciences
- e) Professional fields (such as business, design, textiles, gerontology & family studies, social work, and education)

Information and details regarding admission to the B.L.S. program, evaluation of prior academic work, program advising, and declaration of major may be obtained from Continuing Education Credit Programs, 2637 Hudson Road, Cedar Falls, IA 50614-0223. Students may also call the B.L.S. advisor at 1-800-772-1746 or 319-273-2504. Students are also encouraged to visit the B.L.S. Web site [www.uni.edu/continuing/bls](http://www.uni.edu/continuing/bls).

## Change of Degree Program

Students who change from one degree program to another will be held for all specific requirements of the program on which they expect to graduate. There will be little difficulty in making such a change if it is made not later than the beginning of the junior year. However, if the change is made later than that, there is no assurance that the student will be able to complete the work required for graduation within a four-year period.

## Liberal Arts Core

As stated in the University of Northern Iowa mission statement, the university's undergraduate programs are founded on a strong liberal arts curriculum. The liberal arts experience in the Liberal Arts Core exposes students to the broad areas of knowledge embodied in the whole of the environment and liberates students to further develop the knowledge, skills, and values necessary to live thoughtful, creative, and productive lives. The American Association of Colleges and Universities' "Statement on Liberal Learning" reflects the purposes of UNI's Liberal Arts Core:

A truly liberal education is one that prepares us to live responsible, productive, and creative lives in a dramatically changing world. It is an education that fosters a well-grounded intellectual resilience, a disposition toward lifelong learning, and an acceptance of responsibility for the ethical consequences of our ideas and actions. Liberal education requires that we understand the foundations of knowledge and inquiry about nature, culture and society; that we master core skills of perception, analysis, and expression; that we cultivate a respect for truth; that we recognize the importance of historical and cultural context; and that we explore connections among formal learning, citizenship, and service to our communities.

We experience the benefits of liberal learning by pursuing intellectual work that is honest, challenging, and sig-

nificant, and by preparing ourselves to use knowledge and power in responsible ways. Liberal learning is not confined to particular fields of study. What matters in liberal education is substantial content, rigorous methodology and an active engagement with the societal, ethical, and practical implications of our learning. The spirit and value of liberal learning are equally relevant to all forms of higher education and to all students.

Because liberal learning aims to free us from the constraints of ignorance, sectarianism, and short-sightedness, it prizes curiosity and seeks to expand the boundaries of human knowledge. By its nature, therefore, liberal learning is global and pluralistic. It embraces the diversity of ideas and experiences that characterize the social, natural, and intellectual world. To acknowledge such diversity in all its forms is both an intellectual commitment and a social responsibility, for nothing less will equip us to understand our world and to pursue fruitful lives.

The ability to think, to learn, and to express oneself both rigorously and creatively, the capacity to understand ideas and issues in context, the commitment to live in society, and the yearning for truth are fundamental features of our humanity. In centering education upon these qualities, liberal learning is society's best investment in our shared future.

(The Association of American Colleges and Universities' "Statement on Liberal Learning," 1999)

## Requirements of the Liberal Arts Core\*

### Summary:

Category 1:	Core Competencies	12 hours*
Category 2:	Civilizations and Cultures	9 hours
Category 3:	Fine Arts, Literature, Philosophy and Religion	6 hours
Category 4:	Natural Science and Technology	7 hours
Category 5:	Social Science	9 hours
Category 6:	Capstone Experience	2 hours
<b>Total Program Minimum</b>		<b>45 hours*</b>

\*For students admitted to UNI prior to Fall 1994, the Speaking and Listening course included in the Core Competencies category is not required.

Courses numbered 000-099 are open primarily to freshmen and sophomores. Courses numbered 100-199 are open primarily to juniors and seniors.

### Courses:

#### Category 1: Core Competencies **12 hours\***

Courses in written and oral communication enhance students' abilities to read and listen critically and to write and speak effectively by attention to how the gathering, analyzing, and presenting of evidence and conclusions can be designed for specific purposes and audiences. Courses in quantitative techniques enhance students' abilities to use quantitative data effectively and to apply relevant mathematical and statistical concepts and methods to diverse problems and situations. Personal wellness promotes the acquisition of knowledge and the development of skills and attitudes necessary for implementing positive health-related decisions.

#### A. Reading and Writing (3 hours required)\*

620:005 College Writing and Research (3 hrs.)

620:015 Craft of Academic Writing (3 hrs.)

620:034 Critical Writing About Literature (3 hrs.)

\*620:005 recommended for students with ACT English and Reading

## Undergraduate Degree Requirements

scores of 18-26;

620:015 has prerequisite of combined ACT English and Reading scores of 54 or higher;

620:034 recommended for English majors and minors with prerequisite of ACT English and Reading scores of 54 or higher.

### B. Speaking and Listening (3 hours required)\*\*

48C:001 Oral Communication (3 hrs.)

\*\*For students admitted to UNI prior to Fall 1994, the Speech and Listening course included in the Communication Essentials category is not required.

### C. Quantitative Techniques and Understanding (3 hours required)\*\*\*

800:023 Mathematics in Decision Making (3 hrs.)

800:060 Calculus I (4 hrs.)

800:064 Introductory Statistics for Life Sciences (3 hrs.)

800:072 Introduction to Statistical Methods (3 hrs.)

800:092 Introduction to Mathematical Modeling (3 hrs.)

810:025 Computational Modeling and Simulation, (3 hrs.)

*Elementary Education students may meet the Category 1C requirement by completing 800:031 (3 hrs.).*

\*\*\*Students with Math ACT scores that are 26 or higher will be placed in 800:060 or 800:072 or 800:092 as follows:

Those with four years of college prep math with a grade of B or higher in the senior-level course will be placed in either 800:060 or 800:092. Those not satisfying these criteria will be placed in 800:072.

### D. Personal Wellness (3 hours required)

440:010 Personal Wellness (3 hrs.)

## Category 2: Civilizations and Cultures 9 hours

Courses in this category promote an understanding of Western and non-Western cultures and civilizations from ancient times to the present through historical accounts, literatures, philosophies, religions, and fine arts. Using methods of critical inquiry, students explore aspects of human nature, the shaping of thoughts and values, and their interrelations.

### A. Humanities (6 hours required)

680:021 Humanities I: The Ancient, Classical, and Medieval Worlds (3 hrs.)

680:022 Humanities II: The Renaissance, Reformation, and Enlightenment (3 hrs.)

680:023 Humanities III: The Age of Revolution to the Present (3 hrs.)

### B. Non-Western Cultures (3 hours required)

680:121 Russia/Soviet Union (3 hrs.)

680:122 Japan (3 hrs.)

680:123 Latin America (3 hrs.)

680:124 China (3 hrs.)

680:125 India (3 hrs.)

680:127 Middle East (3 hrs.)

680:128 Africa (3 hrs.)

680:132/990:132 Native North America (3 hrs.)

680:137/990:137 Native Central and South America (3 hrs.)

*780:120 may substitute for the Non-Western Cultures requirement (3 hrs.).*

## Category 3: Fine Arts, Literature, Philosophy and Religion 6 hours

Courses in this category explore diverse forms of human expression and enhance understanding of how religious, philosophical, literary, and aesthetic ideas and experiences shape and reflect cultures and common patterns of human life. Students will develop knowledge of the complex interplay of culture, history, and human experience through

critical examination of ideas and beliefs, ritual and symbol, moral codes and social values, story and poetry, visual art, music, theater, and dance.

### A. Fine Arts (3 hours required)\*

420:034 Survey of Dance History (3 hrs.)

490:002 The Theatrical Arts and Society (3 hrs.)

520:020 Our Musical Heritage (3 hrs.)

520:030 Music of Our Time (3 hrs.)

600:002 Visual Inventions (3 hrs.)

600:004 Visual Perceptions (3 hrs.)

*\*590:011 may substitute for the Fine Arts requirement for all music majors (3 hrs.).*

### B. Literature, Philosophy, or Religion (3 hours required)

620:031 Introduction to Literature (3 hrs.)

640:024 Religions of the World (3 hrs.)

650:021 Philosophy: The Art of Thinking (3 hrs.)

720:031 Introduction to Francophone Literature in Translation (3 hrs.)

740:031 Introduction to German Literature in Translation (3 hrs.)

770:031 Introduction to Russian Literature in Translation (3 hrs.)

790:031 Introduction to Portuguese and Hispanic Literatures in Translation (3 hrs.)

## Category 4: Natural Science and Technology 7 hours

Courses in natural science promote an understanding of science as a human process that investigates matter and energy acting within complex organic and inorganic systems. Fundamental principles of both physical and life sciences are included.

Students are required to take a course with a scheduled laboratory from either Life Sciences or Physical Sciences or another laboratory course offered by the College of Natural Sciences. Only 6 hours are required for students who meet the Liberal Arts Core laboratory requirement with a course other than one listed in Life or Physical Sciences.

### A. Life Sciences (3 or 4 hours required)

For all courses listed under Life Sciences and Physical Sciences, with the exception of 990:010, a student must have satisfied university entrance requirements in English and Mathematics. (College of Natural Science majors and Health Promotion Major/Science Intensive: Environmental Health Option students may meet the Life Sciences requirement by completing 840:051 or 840:052.)

820:032\* Inquiry into Life Science (4 hrs.)

840:012 Life: The Natural World (3 hrs.)

840:013\* Life: The Natural World - Lab (1 hr.)

840:014 Life: Continuity and Change (3 hrs.)

840:015\* Life: Continuity and Change - Lab (1 hr.)

990:010 Human Origins (3 hrs.)

\* Lab Course

### B. Physical Sciences (3 or 4 hours required)

For all courses listed under Life Sciences and Physical Sciences, with the exception of 990:010, a student must have satisfied university entrance requirements in English and Mathematics. (College of Natural Sciences majors may meet the Physical Sciences requirement by completing 860:044, 860:070, 880:054, or 880:130. Health Promotion Major/Science Intensive: Environmental Health Option students may meet the Physical Sciences requirement by completing 860:044, 860:048, or 860:070.)

820:031\* Inquiry into Physical Science (4 hrs.)

820:033\* Inquiry into Earth Science (4 hrs.)

860:010\*\* Principles of Chemistry (3-4 hrs.)

860:011 Molecules and Life (3 hrs.)

870:010\*\* Astronomy (3-4 hrs.)

870:021 Elements of Weather (3 hrs.)

870:031\* Introduction to Geology (4 hrs.)

- 880:011\* Conceptual Physics (4 hrs.)  
 880:012 Physics in Everyday Life (3 hrs.)  
 970:026\*\* Physical Geography (3-4 hrs.)

\* Lab Course

\*\* Lab Course if 4-hour option elected

### Category 5: Social Science 9 hours

Courses in this category introduce students to the description and analysis of human behavior from different perspectives, ranging from the societal and cultural to the institutional, individual, and topical viewpoints. Students are exposed to the diversity of sociocultural systems created by human beings during their evolutionary development, and examine the manner in which behavior is influenced by environmental, sociocultural, psychological, and historical processes.

Required: one course from group A, one course from group B, and one course from group A, B, or C. (Students cannot count both 970:010 and 970:040 toward the Liberal Arts Core.)

#### A. Group A Sociocultural and Historical Perspectives

- 900:023 American Civilization (3 hrs.)  
 970:010 Human Geography (3 hrs.)  
 970:040 World Geography (3 hrs.)  
 980:001 Introduction to Sociology (3 hrs.)  
 990:011 Culture, Nature, and Society (3 hrs.)

#### B. Group B Individual and Institutional Perspectives

- 31F:010 Human Identity and Relationships (3 hrs.)  
 400:001 Introduction to Psychology (3 hrs.)  
 920:024\* Introduction to Economics (3 hrs.)  
 942:014 Introduction to American Politics (3 hrs.)  
 943:024 International Relations (3 hrs.)

*\*Satisfactory completion of both 920:053 and 920:054 by all non-business majors and Business Teaching majors, through UNI or transfer, may substitute for 920:024.*

#### C. Group C Topical Perspectives

- 450:041/900:041 Social Welfare: A World View (3 hrs.)  
 450:045/900:045/980:045 American Racial and Ethnic Minorities (3 hrs.)  
 900:020 Women, Men, and Society (3 hrs.)  
 900:080 Conflict and Social Reconstruction (3 hrs.)  
 900:090 Children and Youth: Issues and Controversies (3 hrs.)  
 940:020 Contemporary Political Problems (3 hrs.)  
 980:060 Social Problems (3 hrs.)

### Category 6: Capstone Experience 2 hours

Capstone courses provide opportunities for students to synthesize the diverse realms of thought they have studied and to apply the intellectual proficiencies they have acquired. The emphasis is on cultivating life-long learning through linking theory and academic preparation to practical problem-solving activities in multidisciplinary seminars or community-based learning courses.

*Prerequisite: junior standing.*

Capstone courses are designated in each Schedule of Classes and also on the Web site [www.uni.edu/lac](http://www.uni.edu/lac).

**TOTAL 45 hours**

***Liberal Arts Core courses included in major or minor program requirements are distinguished by italics.***

## Administrative Policies:

1. Liberal Arts Core courses may be used to satisfy requirements for both the Liberal Arts Core and the major, minor, and program emphases.
2. Departments offering a Liberal Arts Core course may preclude their major or minor students from taking that particular course to

satisfy the requirements for the Liberal Arts Core, the major, or the minor.

3. Liberal Arts Core requirements can be met through CLEP examinations, departmental examinations, and the Advanced Placement Program of the College Entrance Examination Board. A student who receives CLEP credit in both the physical and biological sciences shall be considered to have fulfilled the laboratory requirement.
4. No Liberal Arts Core course may be taken for graduate credit.
5. No Liberal Arts Core course may have a non-Liberal Arts Core course as a prerequisite.
6. All courses taken to meet Liberal Arts Core requirements must be taken for graded credit.
7. The Associate of Arts degree from Iowa community colleges shall continue to be accepted, according to an approved articulation agreement, to meet most Liberal Arts Core requirements.
8. The Liberal Arts Core requirements apply to all undergraduate degree programs.
9. Regents Articulation Agreement:

The University of Northern Iowa, the College of Liberal Arts at the University of Iowa, and the College of Liberal Arts and Sciences at Iowa State University agree to accept fulfillment of the Liberal Arts Core at any one of them as equivalent to completion of Liberal Arts Core requirements at another, with the following stipulations:

- a. This agreement does not apply to those students who transfer without having fully completed the Liberal Arts Core prior to transfer.
- b. Validation of fulfillment of Liberal Arts Core requirements requires that a student transferring must have met the transfer requirements of the receiving institution with respect to semester hours and grade point average.
- c. When a foreign language proficiency, a capstone course, and/or a course in foreign culture is required, whether within or in addition to the Liberal Arts Core, a student may meet this requirement at either institution regardless of the institution whose Liberal Arts Core requirements the student fulfills.
- d. Liberal Arts Core validation is the responsibility of the student transferring and will be completed upon request to the Registrar of the institution from which the student is transferring.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For further information concerning requirements for these certificates see specific departmental listings (pages 80-210), or consult with the department listed or the Office of the Registrar, which serves as the centralized registry. Some of the certificates are interdisciplinary and involve several departments; however, only one department has been listed as the contact.

Program certificates now available include:

### Department of Communication Studies

Certificate in Public Speaking  
 Graduate Certificate in Corporate Communication

### Department of Computer Science

Certificate in Software Testing  
 Computer Applications Certificate

### Department of Curriculum and Instruction

Instructional Technology Facilitator Certificate

## Undergraduate Degree Requirements

### Department of Economics

Certificate in Community Economic Development

### Department of Educational Leadership, Counseling, and Postsecondary Education

Advanced Studies Certificate in Educational Leadership

Emphasis: Principalship

Emphasis: Superintendency Preparation Program

### Department of English Language and Literature

Certificate in Post-Colonial and Multicultural Literary Studies

### Department of Geography

Certificate in Cartography and Geographic Information Systems (GIS)

### School of Health, Physical Education, and Leisure Services

Aquatics Specialization Certificate

Certificate in Global Health and Health Disparities

Environmental Health Certificate

Nonprofit Management and American Humanities Certificate

Outdoor Recreation Certificate

School-Age Care Leadership Certificate

Tourism Certificate

### Department of History

Certificate in Public History

### Department of Industrial Technology

Advanced Technology Certificate

Technology Management Certificate

### Department of Management

Training and Development in Business Certificate

### Department of Marketing

Certificate in Entrepreneurship

Certificate in Marketing Research and Consulting

### Department of Mathematics

Certificate in Continuous Quality Improvement

### Department of Modern Languages

Certificate in French Language Studies

Certificate in German Language Studies

Certificate in Hispanic and Portuguese Studies

Certificate in Hispanic Cultures

Certificate in Portuguese Studies

Certificate in Russian Language Studies

Certificate in Spanish Language Studies

Certificate in Spanish For Special Purposes

International Commerce Certificate

Certificate in Translation (in French, German, Portuguese, Russian, or Spanish)

### School of Music

Artist Diploma (I)

Artist Diploma (II)

### Department of Philosophy and World Religions

Youth Development in Religious Settings Certificate

### Department of Political Science

Certificate in International Peace and Security

Certificate in State and Local Government

### Department of Psychology

Industrial and Organizational Psychology Certificate

Certificate in Psychology of Employee Development

### Department of Social Work

Social Work Certificate

Substance Abuse Counseling Certificate

### Department of Sociology, Anthropology, and Criminology

Certificate in Criminology

Skills in Social Research Certificate

Certificate in Social Identities, Inequalities, and Intersectionalities

### College of Business Administration

Certificate in International Business, Culture, and Language

### College of Humanities and Fine Arts

Certificate in Leadership Foundations

Graduate Certificate in Women's and Gender Studies

### College of Social and Behavioral Sciences

Conflict Resolution Certificate

## Requirements for Graduation

In addition to the completion of one of the baccalaureate degree programs, there are other specific requirements for graduation which apply to all undergraduate students seeking any bachelor's degree, other than the Bachelor of Liberal Studies. These are listed below. See pages 67-69, 72-73, 74-76, and 77-79 for graduation requirements for a graduate degree program.

### A. Residence

1. Not more than 32 semester hours earned in correspondence (specified as Guided Independent Study at UNI), extension, or television courses may be used toward graduation.
2. At least 36 weeks spent in residence at this university while earning in such residence at least 32 hours of credit, of which 20 hours must be earned in the junior and senior years.
3. At least 32 hours of credit earned in the junior and senior years in courses at this university. This total may include nonresidence credit.
4. The last semester or full summer session before graduation spent in residence at this university.

### B. Scholarship

1. A student seeking the bachelor's degree with licensure to teach must successfully complete student teaching and achieve a cumulative grade index in all course work attempted, at this university and elsewhere, of at least 2.50 to be recommended for graduation. The student must also achieve a cumulative grade index of 2.50 on all work attempted at the University of Northern Iowa.
2. A student seeking the bachelor's degree (without licensure) must achieve a cumulative grade index in all work attempted, at this university and elsewhere, of at least 2.00 to be recommended for graduation; the student must also achieve a cumulative grade index of 2.00 on all work attempted at the University of Northern Iowa.

**Note:** A student may be held by her/his academic department to specific grade point requirements, for the major work and/or graduation, which are higher than the grade point requirements for all university students. Students are advised to refer to the requirements for their specific major.

### C. Communication

Competence in reading, speaking, and writing is required of all candidates seeking degrees or university recommendations for licensure. All students who enter UNI with or after the Fall 1988 semester who are candidates for baccalaureate degrees are required to demonstrate competence in writing by passing the Liberal Arts Core writing course and meeting the writing requirements for their academic major.

### D. Foreign Language Competency Requirement

Students entering UNI who graduated from high school in 1989 or thereafter are required to demonstrate a level of competence in a foreign language (classical or modern) equivalent to that achieved after the second semester at the college level. One year of foreign language in high school is considered to be equivalent to one semester of foreign language at the university.

The foreign language competency requirement can be satisfied in the following ways:



1. satisfactory\* completion of two years of high school study in one foreign language;
  2. satisfactory\* completion of a combination of high school and college study in one language equivalent to the competence achieved after the second semester at the college level;
  3. satisfactory performance in an achievement examination measuring proficiency equivalent to that attained after the second semester of college study in one foreign language.
  4. satisfactory\* completion of either two years of high school study or one year of college study or the combined equivalent in American Sign Language (ASL). Study in any other language and culture for the hearing impaired will not automatically satisfy this graduation requirement.
- \*Satisfactory completion means a minimum grade of C- in the last course taken to meet this requirement.

#### E. Advanced Courses

At least 10 hours of work in a major in courses numbered 100-199 and taken at this university.

#### F. Maximum Credit by Examination

A maximum of 32 semester hours of credit earned by examination or by open credit is applicable toward degree requirements. This includes credit earned by CLEP, by departmental examination, by Advanced Placement, and credit established by examination of other colleges and universities.

#### G. Listing of Candidates for Graduation

A student may be listed as a candidate for graduation at the end of a semester if the completion of work for which s(he) is registered would meet all the requirements for graduation exclusive of grade points, and if the grade points to be earned do not exceed the number which could be earned for the hours for which the student is registered.

#### H. Application for Graduation

A student who expects to be graduated at the end of a semester must make written application at the opening of the semester. This application can be accessed through MyUNIverse <http://access.uni.edu/forms/index.shtml> and is filed with the Office of the Registrar.

#### I. Second Baccalaureate Degree (After First Baccalaureate Conferred)

A student may pursue a second baccalaureate degree after a first baccalaureate degree has been conferred. To receive a second baccalaureate degree after first baccalaureate degree has been conferred, a student must meet all the requirements for the second degree, including at least 36 weeks in residence and earning not less than 32 hours of credit.

For example: Student has 20 specified hours of coursework to meet the requirements for the second baccalaureate degree. Student will need to earn an additional 12 hours to meet the minimum 32 hours of credit required for a second baccalaureate degree.

#### J. Two Concurrent Degrees

A student may pursue two *different* baccalaureate degrees concurrently. To receive two different degrees concurrently (i.e., B.A./B.S., B.A./B.Music), a student must meet all the requirements for both degrees, including at least 36 weeks in residence and earning not less than 32 hours of credit beyond the hours required for **the degree the student chooses to declare as the first degree.**

*For example:*

The Bachelor of Liberal Arts degree requires minimum of 120 hours and the Bachelor of Science degree requires minimum 126 hours to graduate.

If declared first degree Bachelor of Liberal Arts/second degree Bachelor of Science, requires minimum 152 hours to graduate with these concurrent degrees (120 hours + 32 hours).

If declared first degree Bachelor of Science/second degree

Bachelor of Liberal Arts, requires minimum 158 hours to graduate with these concurrent degrees (126 hours + 32 hours).

The university does not grant two of the *same* degrees concurrently, including the Bachelor of Arts degree-Liberal Arts and the Bachelor of Arts degree-Teaching program.

A student may have a double major, one in Teaching and one in Liberal Arts, but the Teaching major must be declared as the first major and the B.A. Teaching degree will be the degree conferred, since the teaching degree has the higher grade index requirement.

## Additional Requirements for the Baccalaureate Teaching Program

1. For the completion of any undergraduate curriculum the student must earn a minimum of twelve (12) semester hours of credit in student teaching at this university, except that an undergraduate student with three (3) or more semester hours of credit in student teaching earned at the same level in another college or university may be released from four (4) hours of student teaching at this institution.
2. Not more than twelve (12) hours of credit in student teaching may be used toward the hours required for graduation.
3. One year in advance of the time a student plans to enroll in student teaching, s(he) will be invited to attend a Student Teaching Roundup during which s(he) will complete the necessary steps to apply to student teach and to receive a student teaching assignment. To be eligible for assignment to a student teaching placement, s(he) must have completed the following requirements:
  - a. FULL admission to the teacher education program;
  - b. certificate in *High Risk Behaviors/Substance Abuse*
  - c. a cumulative GPA of 2.50 or higher on work at all colleges and universities;
  - d. a UNI GPA of 2.50 or higher;
  - e. a 2.50 GPA in the appropriate academic department or department approval;
  - f. a GPA of 2.50 or higher and a grade of C- (1.67) or higher in each Professional Education Sequence course (effective January 1, 2009); and
  - g. all methods courses listed as prerequisites for student teaching with a grade of C (2.00) or higher as well as other departmental requirements.
  - h. Mathematics majors are required to have a major GPA of 2.25 or higher AND departmental approval; and
  - i. Health Education and Physical Education majors and minors are required to have current First Aid and CPR certification prior to student teaching.

The final student teacher assignment is based upon fulfillment of all established requirements as stated above, successful completion of Level II, acceptable professional dispositions, and availability of placement.

## Teaching Licensure

Teaching licenses are issued by state departments of education and are valid only in the state of issue. A college or university recommendation is required for issuance of a license.\*

Students in the teaching program must meet requirements for an Iowa teaching license if they are to be recommended for licensure from the University of Northern Iowa. At graduation they are eligible for the Initial License, valid for a period of two years for the kind of service indicated by the endorsement on the license; e.g., elementary and early childhood teaching, secondary teaching in content areas, or teaching in a special area such as art or music. The student usually can secure appro-

## Undergraduate Degree Requirements

priate licensure in other states by making proper application and fulfilling any additional requirements.

In addition to holding a license valid for a specific teaching level, the secondary teacher must also have ENDORSEMENT in each subject to be taught. Endorsements are issued by the Iowa Department of Education on the recommendation of an institution. To secure the recommendation of the University of Northern Iowa, the student must meet the requirements for a teaching major or a teaching minor (or equivalent) in the subject. Exceptions are made only with the authorization of the university department offering the major or minor.

This university may recommend for licensure those graduates of other colleges or universities who have completed their professional education sequence courses here. However, this is a discretionary matter and the university will expect such students to demonstrate excellence of scholarship and meet standards required of its own graduates. Such students must have earned at least 20 hours of residence credit and at least 12 semester hours must be in the area for which endorsement is requested.

Program completion may include evaluations/assessments prescribed by the major, the Council on Teacher Education, or the Iowa Board of Educational Examiners.

For additional information, contact the Office of the Registrar, University of Northern Iowa, Cedar Falls, IA 50614-0006.

## Hours of Credit Needed to Renew or Reinstate a License

Renewal and reinstatement requirements are established by the Iowa State Board of Educational Examiners and are subject to change by that body at any time. The Bureau of Practitioner Preparation and Development of the Department of Education distributes information concerning all changes in licensure requirements to city superintendents and to the teacher-education institutions. Information concerning the renewal or reinstatement requirements may be obtained from the:

Board of Educational Examiners  
Grimes State Office Building  
400 E. 14th St.  
Des Moines, Iowa 50319-0147  
(See [www.state.ia.us/boee](http://www.state.ia.us/boee), Renew a License)

# Graduate Degree Requirements

## Graduate Admission, Academic Regulations, and Degree Requirements

[www.grad.uni.edu](http://www.grad.uni.edu)

The University of Northern Iowa offers twelve advanced programs leading to graduate degrees in:

- Master of Accounting
- Master of Arts
- Master of Arts in Education
- Master of Business Administration
- Master of Music
- Master of Public Policy
- Master of Science
- Master of Social Work
- Professional Science Master's
- Specialist in Education
- Doctor of Education
- Doctor of Industrial Technology

The University of Northern Iowa is a member of the Council of Graduate Schools in the United States and continues its endeavors to meet the needs of higher education and advanced preparation in diverse career fields with a strong and growing graduate program. Graduate degree programs were initiated at UNI in 1951 when the university was authorized by the Board of Regents, State of Iowa to offer a program of graduate work leading to the **Master of Arts in Education** (M.A.E.); the program began with the summer session of 1952. In 1960 the graduate program was extended with the addition of a sixth-year program leading to the **Specialist in Education** (Ed.S.) degree. The addition of the **Doctor of Education** (Ed.D.) program, approved by the Board of Regents, State of Iowa in 1982, enables UNI to offer a complete course of professional preparation for the educational practitioner. Six intensive study areas are available through this Doctor of Education degree program: community health education; curriculum and instruction; educational leadership; leisure, youth and human services; rehabilitation studies; and special education.

In recognition of a more general need for advanced study, the university further expanded the graduate program in 1965 with the addition of the **Master of Arts** (M.A.) degree. This program is open to students who plan to pursue careers in fields other than education and is available, as well, to students interested in doing advanced work in teaching fields - elementary, secondary, and college level.

The addition of the **Master of Business Administration** (M.B.A.) degree in 1975, the **Master of Music** (M.M.) degree in 1976, the **Master of Public Policy** (M.P.P.) in 1991, the **Master of Science** (M.S.) in 1993, the **Master of Social Work** (M.S.W.), the **Master of Accounting** (MAcc) in Fall 2000, and the **Professional Science Master's** (P.S.M.) in Fall 2006 demonstrates the university's continued recognition of the changing needs of higher education and the institution's desire to meet those needs. The **Master of Business Administration** degree is open to students whose career interests are in the fields of business - those already working in the general community, as well as students who have not yet entered their major career field. The **Master of Music** is a professional degree designed for the student planning a career in college or secondary school teaching, for a performance career as a professional musician or composer, or for further study at the doctoral level. The **Master of Public Policy** is an interdisciplinary professional degree preparing students for careers principally in the public sector. The program is structured to accommodate both full-time students and those already in positions in public organizations. The **Master of Science** degree is offered in Athletic Training, Biology, Chemistry, Computer Science and Environmental Science/Technology/Health and is designed to prepare students for positions in those areas. The **Master of Social Work** degree is designed to prepare students for the advanced practice of social work in a variety of public and non-profit settings. The **Master of Accounting** degree is designed for Accounting majors; however, other majors within the College of Business Administration may be admitted to the program. The **Professional Science Master's** degree combines scientific or technical training with abbreviated business training and interdisciplinary cohort building experiences.

The **Doctor of Industrial Technology**, the university's first doctoral program, was authorized by the Board of Regents, State of Iowa to begin with the 1978 fall semester. This doctoral program provides advanced-level study in industrial technology for a wide variety of professional fields and includes the study of the technological systems used in industry and their effect on society and culture.

Graduate majors are available in most departments, and graduate-level courses are offered by all departments of the university.

Those who wish to continue their professional and cultural growth without fulfilling the requirements for a graduate degree may do so if they satisfy the requirements for admission to graduate study.

## Graduate Credit for Undergraduate Students

Undergraduate seniors who are in their final semester and within eight semester hours of graduation, or in their final summer session and within four hours of graduation, may register for graduate credit by filing a Student Request on-line at MyUNiverse (<http://access.uni.edu/forms/index.shtml>) to obtain approval of the head of the department offering the course work. If the cumulative GPA is below 3.00, approval by the department offering the courses, the students' major department (if different), and the Graduate College must be obtained. **The Student Request must be processed to enable the students to register for a graduate class.** The student presents the Student Request, with appropriate signature(s), when scheduling for class. Their combined total of course credits, both undergraduate and graduate, may not exceed fifteen hours in a semester or eight hours in a summer session, and they must be enrolled in sufficient undergraduate work to complete the bachelor's degree in the semester or summer session in which application is made.

Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the work is taken. Such credits may or may not be counted toward graduate



## Graduate Degree Requirements

degree programs at the discretion of the graduate department.

**Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.**

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a certificate program approved by the university. See pages 57-58 for listing of program certificates. For further information concerning specific requirements for these certificates see specific departmental listings (pages 80-210), or consult with the department listed or the Office of the Registrar.

## Licensure and Endorsements

**Licensure.** For approval in some graduate programs, a student must have earned or be eligible for teacher licensure or its equivalent endorsed in an area appropriate to the graduate major. For information on licensure, consult the Office of the Registrar.

**Teaching Licensure and Endorsements.** Students interested in securing licenses to teach in another state should secure information directly from the State Department of Education in that state.

Addresses of different state departments may be obtained from Career Services or the Office of the Registrar.

## Post-Baccalaureate, Undergraduate Study

A student who has received a bachelor's degree may choose to apply for further study at the University of Northern Iowa as an undergraduate rather than a graduate student. Inquiries should be made to the Office of the Registrar. Undergraduate status will be accorded students who seek:

1. a second baccalaureate degree (designation as senior) or
2. teacher licensure (designation as senior) - a student who does not hold a teaching certificate and expects to be recommended by this university for an original certificate must also file an official transcript, or
3. courses for undergraduate credit (designation as unclassified)

**Students with baccalaureate degrees do not earn graduate credit while remaining in this undergraduate classification.** They must be admitted either to graduate Degree or Non-Degree Status before they can receive graduate credit for their course work (courses numbered 100[g] or 200).

## Admission to Graduate Study

*(This section applies to all students taking graduate courses at the University of Northern Iowa after receiving the bachelor's degree.)*

The admission procedures of the Graduate College are administered separately from those of the university's undergraduate program. Prospective students may apply for graduate admission under one of two categories: **Degree Status** or **Non-Degree Status**. Each category carries specific regulations. Applications for U.S. residents can be obtained and completed online at [www.grad.uni.edu/admission/applicationform.aspx](http://www.grad.uni.edu/admission/applicationform.aspx). The completed Application for Admission to Graduate Study should be mailed to the Office of the Registrar, Cedar Falls, IA 50614-0006. International students should contact the Office of Admissions at [www.uni.edu/intladm/](http://www.uni.edu/intladm/) or by phone 319-273-2281 or by fax 319-273-2885.

Admission to graduate study does not guarantee admission to an advanced degree program. Responsibility for determining eligibil-

ity for admission to graduate degree programs rests primarily with the academic departments. The academic departments are responsible for receiving degree status admission applications and for determination of advisability.

A graduate of a college or university accredited by the North Central Association of Colleges and Secondary Schools or a corresponding regional agency will be granted admission to graduate study if her/his application for admission has been approved.

If applicants wish to have graduate level **transfer courses** considered for their graduate degree at UNI, official transcripts must be submitted to the UNI Registrar's Office at the time of admission to graduate study. A Graduate Credit Transfer Evaluation form is also required for each course the student wishes to submit for transfer - this form can be found at <https://access.uni.edu/forms/index.shtml#G>. For UNI policies on eligible transfer courses see **Program of Study** in this catalog.

A graduate of a college or university that is not accredited may be granted provisional admission at the discretion of the Dean of the Graduate College or designee.

**Note:** *Students with a recognized baccalaureate degree who are seeking a second baccalaureate degree, teaching endorsements or approvals through UNI recommendation, and/or miscellaneous undergraduate course work may be admitted through the undergraduate Office of Admissions. These students pay undergraduate fees and may not apply credit earned toward a graduate program.*

## Application Dates

Applications for Degree-Status admission and all credentials required for admission should be on file in the Office of the Registrar at least one month before departmental review. Students must contact the academic department regarding application review deadlines.

International students should note the special application deadlines required by the International Services Office.

Applicants for Non-Degree Status will be accepted up to five days before registration.

## Requirements for Admission to Degree Status

The admission process for **Degree Status** begins when the application for admission and all supporting documents and fees have been received in the Office of the Registrar. **U.S. and international students who are seeking financial assistance and wish to receive the fullest consideration must submit a completed application (please see following requirements) by February 1. Many graduate departments have earlier deadlines, which are indicated in their department materials. All departmental materials should be reviewed carefully for information about early deadlines.** U.S. students must submit a completed application to the Office of the Registrar. International students must submit a completed application to the Office of Admissions. Requests for Degree Status are reviewed and acted upon by the appropriate academic departments, the Office of the Registrar, and the Graduate College.

Applicants who have a bachelor's degree from a college or university accredited by the North Central Association of Colleges and Secondary Schools or a corresponding regional agency will be granted admission to graduate study if their application for admission has been approved. The Office of the Registrar determines that the applicants have an accredited bachelor's degree or will complete the bachelor's degree before commencing graduate study. Graduates of colleges or universities that are not accredited may be granted provisional admission at the discretion of the Dean of the Graduate College or designee.

Students who expect to earn a graduate degree at this university must file an **official** transcript from the college or university granting

the baccalaureate degree if other than the University of Northern Iowa. Degree Status applicants who have attended other colleges or universities after earning the bachelor's degree must file an official transcript of each record. **Only transcripts sent directly from the issuing institution to the UNI Office of the Registrar are considered official.**

Applicants should check with the department offering the major of their choice, to determine whether/which Graduate Record Examination (GRE) tests are required prior to admission. If required, applicants must request that the scores be sent **directly from the testing agency to the Office of the Registrar.**

Students applying for admission to a graduate degree program in the College of Business Administration are required to submit their scores from the Graduate Management Admission Test (GMAT). They need not take the Graduate Record Examination (GRE). Students must request that the testing agencies **forward their test results directly to the Office of the Registrar.**

All applicants who are not native speakers of English are required to take the Test of English as a Foreign Language (TOEFL). International students should contact the Office of Admissions, University of Northern Iowa, for explanation of requirements. The minimum TOEFL score required for admission to graduate status is 550 (paper-based)/213 (computer-based) or 79-80 (Internet). Individual departments may require a higher score.

Additional admission requirements (e.g., departmental application, letters of reference, goal statement, etc.) may be established by departments. Students should contact the department for this information.

Students will be admitted to **Degree Status** on one of two bases:

A. **Unconditional Status**

The minimum undergraduate grade point average, or prior graduate degree grade point average, required for unconditional admission is 3.00 (B = 3.00) or its equivalent. Individual academic departments may require a higher grade point average for admission.

Degree status is accorded students who meet the minimum GPA requirement, have submitted all official transcripts, and are deemed qualified by academic departments to pursue a program of study which can culminate in the earning of a graduate degree. Applicants are to specify their choice of degree program in their admission application.

B. **Provisional Status**

At the discretion of the academic department concerned, an applicant (with an undergraduate and prior graduate GPA of less than 3.00) may be admitted as a **Provisional Degree Student**. A Provisional Degree Student is admitted to a graduate program, subject to certain reservations/requirements. The department must notify the student in writing upon admission of its reservations and requirements that must be satisfied before a student may be removed from provisional status.

A Provisional Degree Student who completes eight (8) or more graded hours of a degree program with a 3.00 grade point average, or better, is generally eligible for reclassification to Degree Status.

The responsibility for such reclassification rests with the academic department concerned. Reclassification review should take place the semester after the student has completed eight (8) semester hours in their graduate program. The department has responsibility for notifying the Dean of the Graduate College or designee about the reclassification decision. No student may receive a UNI graduate degree while on provisional status. The department admitting a student to its graduate degree program will draft a letter of acceptance to be sent to the student; this letter will describe the requirements necessary for completion of the degree program in question.

**Status Acceptance and Waivers.** Any waivers of degree require-

ments as established by a department must be furnished to the applicant by the department in the letter of acceptance (for waiver procedures see page 66).

## Requirements for Admission to Non-Degree Status

**Non-Degree Status** has been established for the post-baccalaureate student who:

- wishes to take courses for self-enlightenment unrelated to any graduate degree program.
- plans to demonstrate competence in graduate studies in support of consideration for admission to a degree program at a later time.

The admission process for **Non-Degree Status** applicants begins when the application for admission and all supporting documents have been received in the Office of the Registrar. Requests for Non-Degree Status are reviewed and acted upon within the Office of the Registrar.

Applicants must have a bachelor's degree from an accredited college or university. All students wishing to receive graduate credit must file an official transcript from each college or university from which they have received a degree, unless the degree was obtained from the University of Northern Iowa. **Only transcripts sent directly from the issuing institution to the UNI Office of the Registrar are considered official.**

All applicants who are not native speakers of English are required to take the Test of English as a Foreign Language (TOEFL). International students should contact the Office of Admissions, University of Northern Iowa, for explanation of requirements. The minimum TOEFL score required for admission to graduate status is 550 (paper-based)/213 (computer-based), or 79-80 (Internet).

**Note:** Academic departments are not obliged to count toward their degree programs **any credit for course work undertaken in a Non-Degree Status**. If a department decides to accept such credit, **no more than 12 semester hours** may be counted toward a degree program.

## Classification of Residents and Nonresidents for Admission, Tuition, and Fee Purposes

See pages 14-15 for further details.

## Academic Regulations

### Academic Discipline - Degree Status Students

Graduate students on degree programs are expected to maintain high academic standards. At the end of each term and when incomplete grades revert to F (Failure) graduate student records are reviewed. Students with unsatisfactory performances are placed on probation or suspended from graduate degree programs and any graduate enrollment at UNI.

A student who has registered for nine (9) semester hours in a program of study and attained a cumulative GPA less than 3.00 in that program will be placed on probation. If the student registers for eight (8) hours while on probation without qualifying as a degree candidate (GPA of 3.00), the student is reviewed at the end of the term for suspension from graduate degree programs. A student who has registered for eighteen (18) semester hours in a program of study and attained a cumulative GPA less than 3.00 in that program will be suspended. Students placed on academic suspension cannot enroll in non-degree graduate status or take courses in the student's program of study during the year of academic suspension. **Reinstatement:** After one full calendar year, students

## Graduate Degree Requirements

who wish to enroll in classes must re-apply to their degree program and receive approvals from their departments and the Graduate College for reinstatement.

When a student is suspended, at least one calendar year must elapse before reapplication for admission to a graduate degree program may be made. Applications for Readmission to Graduate Study must be approved by the department and the Graduate College before a student will be removed from academic suspension. Such applications must be submitted to the Dean of the Graduate College or designee.

A student reinstated after suspension who fails to attain a cumulative GPA of 3.00 in the program of study for the first enrollment period will be permanently suspended from the graduate program.

In determining a graduate student's grade index, all graded course work attempted at this university within the student's program of study will be used as a basis of computation. **If the student has not yet filed a program of study, all graduate courses will be used as a basis of computation.** If a graduate student repeats a course, both grades will be used in computing the index.

No more than six (6) semester hours of C credit (C+, C, C-) earned within the program of study may be applied toward credit for graduation. When C-range grades in the program of study exceed the six hour limit, one or more of such courses *must* be repeated. The original grade for any repeated course will be included in computation for the cumulative GPA in the program of study, as well as in the overall GPA. A course taken to satisfy degree requirements in which a student receives a D or F grade will not be considered satisfactory and *must* be repeated. The original grade for any repeated graduate course (100g, 200, and 300) will be included in the computation for the cumulative GPA in the program of study, as well as in the overall GPA. Individual departments may identify specific courses within the program of study for which a minimum grade of B is required.

## Academic Discipline - Non Degree Status Student

Any non-degree graduate student who is deficient 3 grade points or more of having a 3.00 cumulative grade point average will be suspended (e.g., 9 hours x 3.00 = 27 grade points; with 24 grade points on 9 hours or a 2.67, automatic suspension would occur). Non-degree students who have been placed on academic suspension cannot enroll in graduate courses during the year of academic suspension. After one full calendar year, students who wish to enroll in graduate classes must re-apply to the University of Northern Iowa as a non-degree graduate student, or apply to a graduate program of study, and receive approvals from the Graduate College (and their department, if applicable).

If students feel there has been some procedural irregularity concerning their suspension from the university, the student may request a review by the Graduate College. This review may be conducted by the Dean of the Graduate College (or her/his designee).

## Nonacademic Discipline

### Departmental Nonacademic Probation and Dismissal Policy Procedures\*

\*This policy does not preclude enforcement of any other university policies (e.g., policies regarding the academic standing of graduate students, academic ethics policies, grievance procedures for graduate students and graduate assistants).

In addition to the university-wide requirements for academic standing, **academic departments may establish additional requirements (e.g., ethical/professional standards), violation of which might determine an individual graduate student's standing with regard to probation and dismissal from a graduate program.**

To this end, departments with such requirements must put these in

writing and place them on file in the departmental office and the Graduate College.

Departments must make all reasonable efforts to inform graduate students of the existence of such policies/standards and disseminate them to students upon their admission to graduate study in the program/area.

Subsequent changes in policies/standards must be communicated by the department to each student in the program and to the Dean of the Graduate College or designee. The new regulations will not apply retroactively to the disadvantage of students already in the program.

Departments must provide information to students which outlines: required courses applicable to the various departmental programs of study, examination procedures and other formal evaluations, departmental policies with regard to awarding and renewing assistantships, time limits on programs of study (if less than seven years), registration policies, grade point requirements, requirements for changing from one degree program to another within the department, and other matters as are appropriate. The nature of the departmental advisory system should also be explained to incoming students.

### I. Departmental Nonacademic Probation:

If a student is failing to meet departmental nonacademic standards and probation or suspension is being considered, the department must:

- warn the student of this in writing and specify in what way(s) the student is failing to meet the departmental standard(s);
- advise the student (in writing) of the consequence(s) of failure to address the problem(s) cited, satisfactorily.
- provide the student with a reasonable amount of time (e.g., a minimum of ten school days) within which to respond to the notification (e.g., the right to review) and indicate to the person(s) to whom a response should be made;
- provide the student with a reasonable amount of time to meet the standards or remediate prior to being placed on departmental probation and suspension.

If a student is **to be placed on departmental probation**, the department must:

- provide, at the time of its imposition, a written explanation of this status, and its time limits;
- indicate the impact of departmental probation on the pursuit of future graduate course work in the program of study;
- give the student a reasonable amount of time within which to respond to the notification of probation (e.g., right to review) and indicate to whom a response should be made;
- provide an explanation of the departmental reinstatement procedure(s);
- establish departmental procedures for handling reviews.

The department should also notify the Dean of the Graduate College or designee and the Registrar in writing and indicate the impact of the student's nonacademic probationary status on the pursuit of future graduate course work in the program of study. The Dean of the Graduate College or designee and the Registrar should be notified when the student has been removed from probation.

### II. Departmental Dismissal:

A student may be dismissed for her/his failure to meet: the conditions of admission, conditions of departmental probation, pre-announced departmental grade point requirements or other standards. If a student is dismissed from a graduate program, the department must:

- notify the student of this in writing, specify what the student

- b. indicate the impact of departmental dismissal on the pursuit of future course work in the program of study;
- c. give student a reasonable amount of time (e.g., a minimum of ten school days) to respond to the notification of dismissal (e.g., right to review) and indicate to the person(s) to whom a response should be made;
- d. provide an explanation of departmental reinstatement procedures (as appropriate).

The department should notify the Dean of the Graduate College or designee and the Registrar in writing and indicate the impact of the student's nonacademic dismissal on the pursuit of graduate course work in the program of study. The Dean of the Graduate College or designee and the Registrar should be notified when the student's dismissal has been removed.

Departmental policies/procedures for nonacademic probation and dismissal must be approved by the Graduate Dean and offered a fair and expeditious review.

## Enrollment and Registration Procedures

See page 16.

## Facilities and Educational Services

See pages 27-32.

## Filing Graduate Student Requests

Student requests are used by students to seek appropriate approval(s) for a variety of requests. **Graduate students submit graduate student requests online.** Graduate students have a link in their MyUNIverse. Under the category My Personal Records, the first link on the list is Student Requests. Graduate students click on that link, and follow instructions to write, submit, and review the approval status of all their student requests.

## Financial Aid Office

Qualified degree-seeking students may secure loans from either Perkins or William D. Ford Federal Direct Loan. Loans are available to students enrolled at least half-time (5 semester hours in the fall or spring semesters or 4 semester hours in the summer).

A limited number of opportunities for part-time employment are available on the campus for students attending University of Northern Iowa at least half-time. On-campus positions pay a minimum of \$7.25 per hour.

Graduate students who wish further information about financial assistance may contact the Financial Aid Office, University of Northern Iowa, Cedar Falls, IA 50614-0024. See pages 17-21.

## Fine and Performing Arts at UNI

See pages 33-36.

## Graduate Assistantships

Graduate assistantships are available to qualified students who are working toward a graduate degree at the University of Northern Iowa. The associated work assignment is of an academic nature and designed to contribute to the student's graduate education.

A full assistantship carries a stipend paid in equal installments over a 10-month period. One semester and half-assistantship stipends may also be awarded. The associated work assignment will not exceed 20 hours per week assisting designated professors in certain appropriate academic functions, including teaching and research.

Graduate students receiving an assistantship stipend may also receive other forms of university-based financial aid, tuition awards,

fellowships or scholarships, as long as the latter do not require services performed by the student, i.e., where such could be considered wages. However, students receiving an assistantship stipend cannot be otherwise employed on campus, except as an hourly student employee outside of the department or area of the assistantship.

To be eligible, graduate students must have a minimum 3.00 GPA. Once students have begun studies at the University of Northern Iowa, GPA eligibility will be based upon courses within the program of study. In absence of a program of study, all graduate courses will be used as a basis of computation for GPA eligibility. Graduate students receiving assistantship stipends must be enrolled full-time (9+ graduate hours to a maximum of 15 hours per semester) in courses listed on their program of study. Once students have completed their Program of Study credit hours, the graduate assistantship expires, even if students are taking additional classes. The assistantship does not support students beyond the program completion.

Stipend application forms may be obtained from the department in which the student is applying for an assistantship. **Applications should be filed by February 1 with the department.**

Recommendations for awarding assistantship stipends are made by the department head to the dean of the given college who forwards those to be recommended to the Graduate College. Graduate assistantship stipends are awarded through the Graduate College.

## Graduate Scholarships

Graduate College tuition scholarships are awarded through the Graduate College upon recommendation of both the department head and college dean. To be eligible, graduate students must have Degree Status and must have a minimum 3.00 GPA. Once students have begun studies at the University of Northern Iowa, GPA eligibility will be based upon courses within the program of study. In absence of a program of study, all graduate courses will be used as a basis of computation for GPA eligibility. Graduate students receiving a tuition scholarship must be enrolled full-time (9+ graduate hours to a maximum of 15 hours per semester). Full or half tuition scholarships are available. Once students have completed their Program of Study credit hours, the graduate assistantship expires, even if students are taking additional classes. The assistantship does not support students beyond the program completion.

Scholarship application forms may be obtained from the department office in which the student is applying for a scholarship. Applications should be filed by February 1 with the department.

The Graduate College also administers the campus activities involved in several scholarship competitions, such as Fulbright, Rhodes, and Marshall, which support graduate study abroad. Interested students are encouraged to inquire about these programs of support in their junior or senior year of college or as early in their graduate programs as possible.

Some university departments offer scholarships for graduate study. Students should obtain information about these awards from the departments in which they intend to do graduate work.

## Health

All incoming students are required to submit evidence of having been adequately immunized against measles (rubeola), rubella, and mumps. Students must provide documentation of their immunization records which shows proof of TWO measles, mumps and rubella (MMR) vaccinations. For more information please see our Web site at [www.uni.edu/health](http://www.uni.edu/health)

## Regulations Affecting Registration

Each student admitted to Degree Status is assigned an advisor. The advisor will assist the student in the registration process involving the

## Graduate Degree Requirements

selection of courses and other matters such as:

1. **Maximum academic load.** The maximum graduate student load during each semester of the academic year is 15 hours.

The maximum graduate student load during the eight-week summer session is 9 semester hours - a maximum of 6 semester hours during one four-week period and 3 semester hours during the other four-week period; or three, 3-semester-hour courses during an eight-week period. The maximum load during a two-week post-session is 2 semester hours.

Requests for exceptions to these load regulations must be submitted on-line at MyUNiverse, Student Requests (see Filing Graduate Student Requests on page 65). Exceptions may be granted only by the Dean of the Graduate College (or designee).

2. **Level of courses.** Graduate students normally take courses in the 100(g) series and 200 series. A graduate student may take courses in the 100 series (without g) or below for *undergraduate credit*, but such courses do not carry graduate credit. However, all courses graduate or undergraduate, taken as a graduate student, count in determining the cumulative grade point average, except approved non-graded graduate course work.
3. **Credit from other institutions.** Graduate credit from other accredited institutions may be accepted to a maximum of one-third of the number of hours required by a particular UNI thesis or non-thesis master's degree program. Students pursuing a graduate degree program should discuss their plans to transfer credits with their program advisors as soon as possible. **Credits earned from other institutions will not satisfy the minimum 200-level course requirement.** (See regulations related to transfer credits on pages 72, 74, and 77.)
4. **Continuous registration.** Graduate students who have completed all of their program but not all of their graduation requirements, e.g. comprehensive exams, thesis, paper/project, recitals, etc., must be continuously registered until the degree is completed. Students reaching this stage will be automatically registered in the course xxx:29C, Continuous Graduate Student, and assessed a \$50 fee. Continuous enrollment insures that students can access their university email accounts and utilize the library and its services through graduation.

## Schedule of Fees

See page 17.

## Student Life

See pages 22-25.

## Veterans

The university cooperates with the Veterans Administration providing for the education of veterans under the provision of federal laws. Dependents of veterans or of those persons who may be classified as prisoners of war or missing in action may also receive financial assistance from the Veterans Administration. The Office of the Registrar will assist students eligible under any of these laws and provide the required reports. For additional information, contact the Office of the Registrar, University of Northern Iowa, Cedar Falls, IA 50614-0006.

## Waiver of Regulations

Exceptions to Graduate College regulations may be granted by the Dean of the Graduate College (or designee). Requests for exceptions must be submitted online at MyUNiverse, Student Request (see Filing Graduate Student Requests, page 65).

## Master's Degree Programs

### Common Regulations and Requirements

#### Program of Study

When students' admission files are complete, a standardized program of study is released on-line for view to the students at MyUNiverse (see My Personal Records link). Usually during the first semester of coursework, a departmental advisor will meet with students to inform them of program requirements and expectations. Students will select the thesis or non-thesis option. The program of study on the university's computer database of the university becomes the document of all master's degree requirements. If the student or advisor choose to make any changes in the program of study, the request must be made on-line through MyUNiverse, Student Requests (see Filing Graduate Student Requests, page 65). The Dean of the Graduate College (or designee) is the final person to approve or reject any changes to the program of study. The Dean of the Graduate College is in general charge of each graduate student's program.

Transfer courses *taken after degree admission* will not be processed or approved for inclusion in the program of study until official transcripts for these courses are filed with the Office of the Registrar and a Transfer Evaluation form is completed (available on MyUNiverse at <https://access.uni.edu/forms/index.shtml#G>). A graduate transfer evaluation form must be completed by all credit transfer institutions (not required for credit from Iowa State University or the University of Iowa). Academic departments are not obliged to count toward their degree programs any credit for course work undertaken without specific advice provided by the department, either through an advisor assigned to the student prior to the formal interview or in the course of the interview itself. Graduate credit earned at regionally accredited colleges and universities may be accepted to a maximum of one-third of the number of graded hours required by a particular UNI thesis or non-thesis master's degree program (for doctoral transfer maximums see the individual programs). In addition to departmental assessment, all transfer courses must satisfy criteria established by the Graduate Council.

1. Course must be a regular graduate course with a graduate course number (not professional development or college credit through an Educational Agency or conference).
2. Course must be taken for graduate credit.
3. Course must be applicable as a graduate requirement at the institution where it is taken.
4. Course must be taught by regular graduate faculty.
5. Course must meet the UNI seven-year recency requirement.

**Making Up of Incomplete Work. Work reported as *Incomplete (I)* in the fall session for graduate students must be completed by June 1 the next calendar year. Work reported *Incomplete* in the spring and summer sessions must be completed by January 1 the next calendar year.** The exact length of time to remove the *Incomplete* within the above guidelines, is set by agreement between the instructor and the student. If the work reported as *Incomplete* is not made up by the deadline noted above, it is automatically entered as an *F (Failure)* on the student's record.

Any requests for an exception to the above guidelines must be submitted on-line through MyUNiverse, Student Requests (see Filing Graduate Student Requests, page 65). Only under the most unusual circumstances would requests for additional time be approved.

Some courses continue beyond the normal ending date of the semester or session. In such cases the initial grade reported will be an *RC* which means *Research* or *Course Continued*. Once the extended instructional period is finished the *RC* grade will be replaced with the appropriate



ate grade assigned by the instructor (see pages 38-39).

**Thesis Committee.** M.A. students on the thesis option must select a thesis committee in consultation with their academic advisors (usually within the first 9-12 credit hours of course work). They must file a Student Request on MyUNiverse, Student Request, for Graduate College approval (see Filing Graduate Student Request, page 65). The committee consists of a faculty chairperson and two additional graduate faculty members. One of the three may be from outside the major department, however a minimum of three must be graduate faculty. The student can add additional persons. The committee assists students to further define course work, supervise thesis research and writing, and eventually accept or reject the thesis.

The nature of the thesis is described on pages 68-69.

**Selection of Thesis Topic.** Students following the thesis plan of study are urged to make at least a tentative selection of a topic by the end of their first semester.

## Graduation Requirements

### Thesis Plan

1. The number of hours of graduate credit required varies with the major. **A minimum of 30 semester hours of graduate credit is required for all majors.** For the Master of Arts (M.A.), the Master of Arts in Education (M.A.E.), the Master of Music (M.M.), and the Professional Science Master's (P.S.M.), a minimum of 24 semester hours must be in course work other than xxx:299 Research and xxx:29R Directed Research. For the Master of Science (M.S.) degree, a minimum of 21 semester hours must be in course work other than xxx:299 Research and xxx:29R Directed Research. The remainder of the 30 semester hours will be xxx:299 thesis research credit. See departmental listings for program descriptions.
2. 200-level credits: A minimum of 9 semester hours of 200-level credit, other than xxx:299 Research and xxx:29R Directed Research, taken at the University of Northern Iowa is required. A minimum of 6 semester hours of xxx:299 and a maximum of 9 semester hours of xxx:29R taken at the University of Northern Iowa can be applied to the requirements for the degree. The xxx:29R course can only be taken for the program of study after completing 9 hours of xxx:299.
3. Completion of the course requirements for a specific major and any additional courses designated by the departmental committee.
4. Meet the seven-year recency of credit requirement.
5. Complete a thesis and meet thesis submission deadlines. Students receiving the Master of Music (M.M.) degree will be required to complete a final project as required by the department.
6. Residency requirement: At least 20 semester hours must be earned at the University of Northern Iowa; 6 semester hours must be earned in a single semester or summer session, **after admission to degree status.**
7. Core requirements.

#### Master of Arts in Education

200:214 Foundations of Instructional Psychology - 3 hrs.  
or  
260:234 Philosophy of Education - 3 hrs.  
250:205 Educational Research - 3 hrs.

#### Master of Arts

Professional Core A  
required only by certain majors

#### Master of Music

No core required.

#### Professional Science Master's

No core required.

### Master of Science

No core required.

### Non-Thesis Plan

1. The number of hours of graduate credit required varies with the major. **A minimum of 30 semester hours of graduate credit is required for all majors.** For the Master of Accounting (MAcc), the Master of Arts (M.A.), the Master of Arts in Education (M.A.E.), the Master of Business Administration (M.B.A.), the Master of Music (M.M.), the Master of Public Policy (M.P.P.), the Master of Science (M.S.), the Master of Social Work (M.S.W.), and the Professional Science Master's (P.S.M.) a minimum of 27 semester hours must be in course work other than xxx:299 Research and xxx:29R Directed Research. See departmental listings for program descriptions.
2. 200-level credits: A minimum of 12 semester hours of 200-level credit, taken at the University of Northern Iowa is required. No more than 3 semester hours of xxx:299 can be applied to the requirements for the degree. xxx:29R cannot be applied to the required minimum hours of 200-level as determined by each program. Following enrollment in 3 semester hours of xxx:299, a non-thesis major can register for 1-12 hours of xxx:29R in their program of study, as long as no more than 6 semester hours are taken per semester.
3. Completion of course requirements for a specific major and any additional courses designated by the departmental committee.
4. Meet the seven-year recency of credit requirement.
5. Complete at least one research paper, approved by the department and filed in the departmental office. The research paper must be read and approved by a committee of at least two members of the graduate faculty, presented in a format acceptable for publication and permanently filed in the departmental office.
6. Residency requirement: At least 20 semester hours must be earned at the University of Northern Iowa; 6 semester hours must be earned in a single semester or summer session, **after admission to degree status.**
7. Core Requirements:

#### Master of Accounting

No core required.

#### Master of Arts in Education

200:214 Foundations of Instructional Psychology - 3 hrs.  
or  
260:234 Philosophy of Education - 3 hrs.  
250:205 Educational Research - 3 hrs.

#### Master of Arts

Professional Core A -  
Required only by certain majors.

#### Master of Business Administration

No core required.

#### Master of Music

No core required.

#### Master of Public Policy

No core required.

#### Master of Science

No core required.

#### Master of Social Work

No core required.

#### Professional Science Master's

No core required.

#### Professional Core A

(prerequisite: teacher licensure or equivalent)  
200:214 Foundations of Instructional Psychology - 3 hrs.  
or  
260:234 Philosophy of Education - 3 hrs.

## Graduate Degree Requirements

250:205 Educational Research or a departmental course in Research and Bibliography

A course in curriculum or methods of instruction in the major field or any additional course numbered 200 from courses in the 200:xxx through 290:xxx series.

## Other Requirements and Criteria

1. **Scholarship.** A cumulative grade index of 3.00 (B average) must be earned in all courses attempted as a graduate student within the program of study. No more than 6 semester hours of C+, C, C- credit earned within the program of study may be applied toward credit for graduation.
2. **Recency of credit.** Courses taken more than seven years prior to the granting of the degree cannot be used to meet degree requirements.
3. **Nongraded credit.** Up to 3 credit hours of graduate nongraded course work may be applied within the program of study. Exceptions are practica, internships, 299/399 Research and xxx:29R Directed Research.
4. **Transfer of credit from other institutions. Transfer courses will not be used to satisfy the 200-level course requirement.** (In addition to departmental assessment, all transfer courses must satisfy criteria established by the Graduate Council.)
5. **Correspondence credit.** Correspondence courses (specified as Guided Independent Study at UNI) may not ordinarily be applied toward a graduate degree program. In unusual circumstances a student may request that a maximum of 3 semester hours of 100g-level correspondence/UNI Guided Independent Study credit be applied to a graduate degree program. The request must be submitted to the Dean of the Graduate College or designee **prior to registering** for the course. The combination of transfer credit and correspondence credit cannot exceed one-third of a program of study.
6. **Workshop credit.** No more than 6 credit hours earned in workshop courses, at the University of Northern Iowa or another institution, will be applied toward a graduate degree.
7. **Examinations.** Master's degree students on either the thesis or non-thesis plan may be required to pass a comprehensive examination over a specific body of knowledge as prepared and administered by each department at the end of the student's program of study.
8. **Research credit.** Registration for xxx:299 Research will not be accepted until the student has submitted a statement or outline of the proposed research project and has secured the approval of the person directing the research project and the head of the appropriate department. A copy of the completed research report, approved by the director of the research project and the department head, should be filed in the departmental office.

Research carries residence credit and may be pursued either on or off campus, but not in an extension class. There is no prerequisite, although it is strongly recommended that 250:205 Educational Research or a departmental course in research be completed before registering for Research.

9. **Residence.** At least two-thirds of the minimum hours required for a particular thesis or non-thesis master's degree program must be taken with members of the UNI faculty and must include 6 or more hours in one semester or summer session. The specialist and doctoral degree programs each have different residence requirements. For specific degree program requirements, see pages 72, 75, and 78. As soon as possible, students in a degree program should discuss their residence credit plan with their program advisor in their degree department.

After students have been admitted for the master's degree, and **provided that prior arrangements have been made** with the Dean of

the Graduate College, they may take work at the University of Iowa, Iowa State University or the Quad-Cities Graduate Study Center. UNI may grant residence credit for this.

10. **Continuous registration.** Graduate students who have registered for all of their program but not all of their graduation requirements, e.g. comprehensive exams, thesis, paper/project, recitals, etc., must be continuously registered until the degree is completed. Students reaching this stage will be automatically registered in the course xxx:29C (xxx refers to students' major department), Continuous Graduate Student, and assessed a \$50 fee. Continuous enrollment insures that students can access their university e-mail accounts and utilize the library and its services through graduation.
11. **Thesis.** A thesis is required of all students who choose the thesis option. Because the thesis is considered to serve a functional need, no attempt is made to limit the topics considered acceptable. The thesis is to be prepared and submitted in accordance with the most current edition of the Graduate College *Thesis and Dissertation Manual* at [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx).

The thesis may take the form of studies, experiments, surveys, compositions, creative work and projects, and may concern itself with such matters as methodology, understanding children, and materials of instruction, or may delve rather deeply into some aspect of a specialized academic field. Whatever the nature of the subject, its development into an acceptable thesis is considered to contribute to the growth of such attributes as maturity of judgment, initiative, writing ability, and organizational ability. While the thesis may make no significant contribution to the world's knowledge, its preparation should develop in the writer a broader understanding of the world's knowledge and a more genuine appreciation of the research efforts of others.

- a) **Credit hours.** The total number of credit hours of research permitted for thesis work will vary with the program. Master's theses (M.A., M.A.E.) include a 6-9 hour research credit requirement. The M.S. thesis option requires a maximum of 9 credit hours of research in the program of study. The specialist and doctoral programs may have different research hour requirements. However, in all cases, to earn research credit the student registers for the appropriate numbered course (xxx:299, xxx:399), **not more than 6 hours in any semester.** The instructor may assign an *RC* for *Research Continued*, if s(he) feels the work has not reached the stage where it can be evaluated. Registration for the last segment of research credit for which a student registers (for work on her/his thesis) should be postponed until the thesis is near completion.

The Registrar may authorize the extension of time for the completion of a *Research Continued (RC)* in Research (xxx:299/xxx:399) up to one additional calendar year with consent of instructor. If at the end of that time the work has not been completed, the *RC* will be changed to an *F (Failure)*.

- b) **Thesis preview.** During the semester in which students intend to graduate, they must make an appointment with the Graduate College for a thesis preview to have the style and format of the thesis reviewed. All problems may not be detected during the preview; however, the major difficulties will be discussed. Often a brief consultation will uncover format problems that are easily remedied at this stage. No thesis will be accepted by the Graduate College for final approval without the completion of this meeting. Students must have an approved program of study and the Thesis Committee approved by the Graduate Dean before a preview meeting will be scheduled. Academic departments must identify the students who should be scheduled for preview each semester. The preview must **be sched-**

uled and completed no later than eight weeks before the last day of the semester students intend to graduate.

- c) **Oral Defense.** All students must have a formal oral defense of their thesis before a committee composed of at least three UNI graduate faculty. Completion of the thesis project occurs when the students' committee and the Dean of the Graduate College have approved the thesis. The thesis must be presented for approval to the **thesis committee** early enough in the semester to meet the Graduate College deadline for final submission.

- d) **Filing of thesis.** Students must present two copies of the thesis in final form, either originals or photocopies, to the Graduate College no later than six weeks before graduation. **Failure to meet this deadline will result in a delay in graduation.** The requirements for the preparation and filing of the thesis are set forth in the *Thesis and Dissertation Manual*. The manual may be obtained from the Graduate College Web site [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx) and should be consulted prior to beginning the thesis.

Final copies submitted to the Graduate College must be on white, acid free, 24-pound, 25 percent or 100 percent cotton paper. Students may purchase the approved paper at the print center in the Physical Plant. Final copies must be clean and suitable for microfilming, with uniform darkness, and a sharp imprint.

When the thesis is submitted to the Graduate College, students will present a receipt of payment for the cost of the thesis binding. This fee is paid at the University Office of Business Operations. Students will also indicate to the Office of the Graduate College the name and edition of the style manual used in preparing the thesis. Consult the *Thesis and Dissertation Manual* for the list of approved style manuals.

In addition to the two copies required by the Graduate College, the department awarding the degree requires copies. Students should check with their department, as the number varies.

- e) **Filing of abstract of thesis.** An abstract or summary of the thesis is required of all students following the thesis plan toward the master's degree. The abstract will be approximately 350 words in length and is submitted with the thesis. **Three copies of the abstract must be filed in the Office of the Graduate College.**

12. **Application for graduation.** Application for graduation can be completed on paper or electronically on My-UNiverse at the time students register for their last semester of classes, or any time up to the 12th week of classes (July 1 deadline for all summer sessions). During Fall and Spring semesters, the 12th week helps assure students' names will be included in the commencement publication. After the 12th week special application for graduation must be made on paper and submitted to the academic department for approval. Paper applications are available at MyUNiverse in the forms repository, at the Office of the Registrar, or in academic departments.

## Summary of Hour Requirements

A summary of the hour requirements for both the thesis and the non-thesis plans is listed below. These are the **minimum** number of hours and should not be interpreted as a maximum number. **Additional hours may be required by departments for individuals on specific programs or special objectives.**

	Thesis	Non-Thesis
Minimum graduate hours required.....	30*	30**
Minimum hours of credit at UNI.....	20^	20
Maximum usable hours combined in transfer and correspondence~ credit .....	10^^	10^^
Maximum usable hours of correspondence~ credit (requires Graduate College preapproval) .....	3	3
Maximum usable hours of workshop credit.....	6	6
Minimum hours required in courses numbered 200 and above at UNI .....	15#	12##
~correspondence courses at UNI are specified as Guided Independent Study		
*Includes 6 to 9 hours for research (xxx:299), depending on the master's program.		
**Includes at least one research paper. Total hours depends on major chosen.		
^Must include 6 or more hours in one semester or summer session.		
^^Up to one-third of the hours on the graduate program of study.		
#Includes no more than 6 hours research credit (xxx:299) for thesis. Some departments have a higher minimum.		
##In some departments they may include no more than 3 hours of Research (xxx:299).		

## Second Master's Degree

Students may pursue a second master's degree at the University of Northern Iowa upon completion of the first master's degree or may pursue two separate master's degrees concurrently by meeting all requirements for the second degree. **Only 8 semester hours of work from the first degree may be used for the second degree.** All university graduation requirements including completion of 200-level course work, separate master's project/thesis, comprehensives, and all other specific requirements shall be met for the second degree in addition to the first degree.

## Interdisciplinary Master's Degree

A student may pursue a master's degree with two majors or two emphasis areas by meeting all the requirements for the second major; 8 semester hours of work from the first major may be used for the second. The requirements for work at the University of Northern Iowa, 200-level work, and all other specific requirements shall be met for the second major, in addition to work completed for the first major. Common research project/thesis and comprehensives are permissible. For students completing one thesis for two majors, course work common to both majors would include 6 hours of xxx:299 Research and 2 additional hours. This would constitute the 8 semester hours of course work that may be common to both majors.

## Master of Accounting Degree

Students interested in this Master of Accounting (MAcc) degree must submit a completed Application for Admission to Graduate Study and should contact the Department of Accounting for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Students who plan to receive the degree Master of Accounting (MAcc) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

See pages 86-87 for program requirements.

### Master of Arts Degree

Students interested in the Master of Arts degree program must submit a completed Application for Admission to Graduate Study and should contact the appropriate department for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Master of Arts program is a highly flexible one. The plan of study prescribed for each student depends upon the student's undergraduate preparation, experience, and future plans. The needs of the student, as determined by the student and her/his advisor and departmental committee, are the guiding factors in course selection. It should be stressed, however, that regardless of the plan of study followed, graduate work leading to the degree of Master of Arts should constitute a cohesive, logically planned program, not merely an accumulation of credit in a variety of courses. On most programs both the thesis and the non-thesis plans are available.

Students who plan to receive the degree Master of Arts (M.A.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements. See individual department sections as noted below for specific major requirements.

A number of curricula lead to the degree of Master of Arts. Programs are available for advanced preparation of elementary and secondary teachers, for college teaching, and for graduate study without reference to teaching. The following majors are offered:

- Art (see page 89)
- Biology (see page 94)
- Chemistry (see page 98)
- Communication Studies (see page 104)
- Criminology (see page 205)
- Curriculum and Instruction: Instructional Technology (see page 112)
- English (see page 130)
- French (see page 178)
- Geography (see page 135)
- German (see page 178)
- Health Education (see page 140)
- History (see page 149)
- Leisure Services-Youth and Human Services (see page 145)
  - Leisure Services Management Emphasis
  - Youth and Human Service Administration Emphasis
- Mathematics (see page 171)
- Mathematics for the Middle Grades (4-8) (see page 171)
- Mental Health Counseling (see page 123)
- Music (see page 184)
- Performance and Training Technology (see page 113)
- Philanthropy and Nonprofit Development (see page 160)
- Physical Education (see page 143)
- Psychology (see page 196)
- School Library Studies (see page 113)
- Science Education (see page 198)
- Social Science (see page 201)
- Sociology (see page 205)
- Spanish (see page 179)
- Speech-Language Pathology (see page 100)
- Teaching English to Speakers of Other Languages (TESOL) (see page 131)
- TESOL/Modern Languages (see pages 132, 180)
- Two Languages: French/German, Spanish/French, German/Spanish (see page 180)
- Women's and Gender Studies (see page 160)

### Master of Arts in Education Degree

Students interested in this Master of Arts Education degree must submit a completed Application for Admission to Graduate Study and should contact the appropriate department for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

This degree is designed for students whose work is primarily in professional education. Two plans of study leading to the degree of Master of Arts in Education are available: one plan requires the writing of a thesis; the other does not.

Many programs at this level carry with them the requirements for teacher licensure. In some cases, students may be building up competency in a field in which they have had little or no preparation at the bachelor's level. For these reasons some of the programs must carry with them a substantial number of specific requirements. Whenever possible, however, an effort is made to keep the specific course requirements for each major at a minimum, so students, with the help of their advisor and the departmental committee, may plan the graduate program which will best meet the students' individual needs.

Students who plan to receive the degree Master of Arts in Education (M.A.E.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69, and the specific major requirements. See individual department sections as noted below or contact the head of the department offering the major for specific major requirements.

Although a special curriculum is not available for supervisors of student teaching, a student can arrange a program to qualify for such a position.

The following majors are offered:

#### Department of Curriculum and Instruction

- Curriculum and Instruction: Specialty Area Focus
- Curriculum and Instruction: Early Childhood Education (see page 114)
- Curriculum and Instruction: Education of the Gifted (see page 114)
- Curriculum and Instruction: Elementary Education (see page 114)
- Curriculum and Instruction: Literacy Education (see page 115)
- Curriculum and Instruction: Middle Level Education (see page 115)

#### Department of Educational Leadership, Counseling, and Postsecondary Education

- Postsecondary Education: Student Affairs (see page 123)
- Principalship (see page 124)
- School Counseling (see page 124)

#### Department of Educational Psychology and Foundations

- Educational Psychology (see page 126)
- Educational Psychology: Professional Development for Teachers (see page 126)

#### Department of Special Education

- Special Education (see page 206)
- Teacher of Students with Visual Impairments (see page 207)

### Master of Business Administration Degree

Students interested in this Master of Business Administration degree must submit a completed Application for Admission to Graduate Study and should contact the College of Business Administration for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Graduate study in business at UNI provides a broad-based, integrat-

ed program which emphasizes the functional areas of business in order to provide the graduate with a balance between theoretical knowledge and practical business operations. The M.B.A. curriculum is designed to meet the needs of students with undergraduate backgrounds in the liberal arts, sciences, engineering, as well as those with degrees in business. The M.B.A. program is accredited by AACSB International, the primary accrediting organization on management education.

The plan of study prescribed for the degree is structured to develop graduates who will have acquired: 1) an understanding of the theoretical and practical aspects of the process of policy formulation and implementation; 2) a comprehension of environmental factors-economic, legal, social, and political-which affect the individual in the performance of managerial responsibilities; 3) an understanding of analytical techniques and the use of quantitative data in the administration of business controls; 4) the ability to communicate ideas effectively in oral and written form; and 5) a basic knowledge of selected functional areas of business administration.

Admission to the Master of Business Administration program is dependent upon the quality of the applicant's undergraduate record, the score on the Graduate Management Admission Test (GMAT), and writing skills demonstrated on the addendum to the application. The GMAT must be taken prior to acceptance into the program.

Students who plan to receive the degree Master of Business Administration (M.B.A.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

See page 161 for program requirements.

## Master of Music Degree

Students interested in this Master of Music degree must submit a completed Application for Admission to Graduate Study and should contact the School of Music for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

*Students wishing to take a course for graduate credit in the School of Music or wishing to pursue a degree program in this department must consult with the **Associate Director for Graduate Studies in Music** prior to registration for the course. Detailed information concerning requirements and procedures will be provided, and specific evidence of previous accomplishments will be reviewed.*

The Master of Music degree is a professional degree designed to prepare the graduate for: 1) enhanced opportunity in public and private school music teaching, 2) a college teaching career, 3) a performance career as a professional musician or composer, or 4) further graduate work at the doctoral level. The following majors are offered:

- Composition (see page 186)
- Conducting (see page 186)
- Jazz Pedagogy (see page 186)
- Music Education (see page 186)
- Music History (see page 187)
- Performance (see page 187)
- Piano Performance and Pedagogy (see page 187)

Applicants for a graduate degree program in the School of Music should possess the baccalaureate degree in music or a demonstrated equivalent. Students should have attained a high degree of proficiency in one or more of the following areas: performance, theory-composition, conducting, music education, or music history.

Students who plan to receive the degree Master of Music (M.M.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and admission requirements specific to the major. See pages 185-188 for specific admission and major program requirements.

## Master of Public Policy

Students interested in this Master of Public Policy degree must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Master of Public Policy is a professional interdisciplinary degree program providing specialized and advanced training for students wishing to assume roles as policy analysts, principally in the governmental and nonprofit sectors of society.

Core courses in the program provide thorough coverage of the contributions of political science, economics, and history to the analysis of public policy. The core also includes methods courses that provide training in the rigorous methods of policy analysis required of professionals in the field.

Focus courses allow students to develop an understanding of a particular substantive or methodological area of policy analysis. Continuing participation in seminars allows discussion of current practice and development, provides a forum for on-going discussion, and includes philosophical orientation to the ethical questions which arise in policy contexts. An internship with a public policy organization introduces students to the professional environment and allows application of theory and methods to actual policy problems.

Students who plan to receive the degree Master of Public Policy (M.P.P.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the major program requirements.

See page 161 for program requirements.

## Master of Science Degree

Students interested in this Master of Science degree must submit a completed Application for Admission to Graduate Study and should contact the appropriate department for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Students who plan to receive the degree Master of Science (M.S.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

See individual department sections as noted below for specific major program requirements.

The following majors are offered:

- Athletic Training (see page 138)
- Biology (see page 95)
- Chemistry (see page 99)
- Computer Science (see page 108)
- Environmental Health (see page 162)
- Environmental Science (see page 162)
- Environmental Technology (see page 162)
- Technology (see page 152)

## Master of Social Work Degree

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Social Work for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Master of Social Work program is accredited by the Council on Social Work Education.

The mission of the University of Northern Iowa's Master of Social Work degree program is to prepare students for advanced micro practice or social administration. There is commitment to serve the community

## Graduate Degree Requirements

and to contribute new knowledge to the field. Students and faculty are also committed to creating environments that enhance optimal human potential and growth. Theoretical underpinnings and learning environment are based on systems and strengths perspectives. Advocacy and promotion of cultural sensitivity, human rights, and social and economic justice are central to the program.

Students who plan to receive the degree Master of Social Work (M.S.W.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the major program requirements. See page 202 for major program requirements.

## Professional Science Master's Degree

Students interested in this Professional Science Master's degree must submit a completed Application for Admission to Graduate Study and should contact the appropriate department for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Professional Science Master's degree combines scientific or technical training with abbreviated business training and interdisciplinary cohort building experiences.

Students who plan to receive the Professional Science Master's degree (P.S.M.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

See individual department sections as noted below for specific major program requirements.

The following majors are offered:

Applied Chemistry and Biochemistry (see page 99)

Applied Physics (see page 192)

Biotechnology (see page 95)

Ecosystem Management (see page 95)

Industrial Mathematics (see page 171)

Continuous Quality Improvement Option

Mathematical Computing and Modeling Option

## Specialist in Education Degree

Students interested in this Specialist in Education degree must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Psychology and Foundations for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The following major is offered in the Department of Educational Psychology and Foundations:

School Psychology (see page 127 for program requirements)

## Graduation Requirements

Students shall complete the general requirements for the Specialist in Education degree and shall meet the requirements as specified by the departmental committee using a combination of graduate courses taken for the master's degree and beyond.

**Hours of credit.** A student must earn a minimum of 30 semester hours of graduate credit beyond the master's degree. Credit earned in excess of that required for the master's degree may be applied toward the 30-hour requirement if that credit is earned during the final semester. Certain limitations on the amount and kinds of credit must be observed:

**200-level credit.** A student must earn at least 24 semester hours of credit in courses numbered 200 or above, counting both the master's and

the post-master's work but not counting any Research credit.

1. **Research credit.** For the thesis option, not more than 6 hours of research credit (xxx:299) can be included in the 30 (or more) hours of post-master's credit. For the non-thesis option, not more than 3 hours of research credit (xxx:299) can be included in the 30 (or more) hours of post-master's credit.
2. **Recency of credit.** Courses taken more than seven years prior to the granting of the degree cannot be used to meet degree requirements.
3. **Transfer credit.** In addition to the transfer credit permitted on the master's degree, 8 semester hours of transfer credit for post-master's work may be applied toward the degree of Specialist in Education.
4. **Correspondence credit.** Correspondence (specified as Guided Independent Study at UNI) courses may not ordinarily be applied toward a graduate degree program. In unusual circumstances a student may request that a maximum of 3 semester hours of 100g-level correspondence/UNI Guided Independent Study credit may be applied to a graduate degree program. The request must be submitted to the Dean of the Graduate College or designee **prior to registering** for the course.
5. **Workshop credit.** No more than 6 hours of credit earned in workshop courses, at the University of Northern Iowa or another institution, will be applied toward a graduate degree.

**Scholarship.** A cumulative grade index of 3.00 (B average) must be earned as graduate students in all courses attempted in the program of study. No credit toward graduation is allowed for a course in which a grade below C (C-, C, C+) is earned.

**On-Campus Residence.** Students must have completed at least 18 hours in residence credit on campus, including one semester or two summer sessions of full-time enrollment in residence after the master's degree.

### Examinations.

- (a) Students must pass a comprehensive oral examination, including a defense of the thesis, if required.
- (b) Students may be required by the departmental committee to pass a written comprehensive examination. If required, it should precede the oral examination.

**Thesis.** Students who did not complete a thesis for the master's degree must complete one for the specialist's degree. A department may require students who have written a master's thesis to write a thesis for the specialist's degree also. The thesis must be presented in the style and form prescribed for the master's thesis. It must have the approval of the thesis committee and the Dean of the Graduate College.

The work on a thesis will involve 6 hours of research credit (xxx:299). To earn this credit, a student registers for *Research* and usually not in one block. The instructor may assign a grade for a semester's registration in research based upon the progress made, or may assign a *Research Continued (RC)* if the instructor feels the work has not reached the place where it can be evaluated. Registration for the last segment of research credit (for work on a thesis) should not be made until the thesis is near completion. The Registrar may authorize an extension of time for the completion of *Research Continued (RC)* in research up to one additional calendar year with the consent of the instructor. If at the end of that time the work has not been completed, the grade of RC will be changed to an *F (Failure)*.

Completion of the thesis project occurs when the thesis has been approved by the thesis committee and the Dean of the Graduate College.

The Dean of the Graduate College approves the appointment of three members of the Graduate Faculty as an advisory committee to guide the student in selecting and completing an appropriate thesis project.

**Filing of Thesis.** Students must present two copies of the thesis in final form, either originals or photocopies, to the Graduate College no later than six weeks before graduation. Failure to meet this deadline will result in a delay in graduation. The requirements for the preparation and filing of the thesis are set forth in the *Thesis and Dissertation Manual*. The manual may be obtained on-line at the Graduate College Web site [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx) and should be consulted prior to beginning the thesis.

Final copies submitted to the Graduate College must be on white, acid free, 24-pound, 25 percent or 100 percent cotton paper. Students may purchase the approved paper at the print center in the Physical Plant. Final copies must be clean and suitable for microfilming, with uniform darkness, and a sharp imprint.

When a thesis is submitted to the Graduate College, students will present a receipt of payment for the cost of the thesis binding. This fee is paid at the Office of Business Operations. Students will also indicate to the Office of the Graduate College the name and edition of the style manual used in preparing the thesis. Consult the *Thesis and Dissertation Manual* for the list of approved style manuals.

In addition to two copies for the Graduate College, students should check with the department awarding the degree regarding the number of additional copies required, as these vary.

**Filing Thesis Abstract.** An abstract or summary of the thesis is required of all students following the thesis plan toward the specialist's degree. The abstract will be approximately 350 words in length and is submitted with the thesis. **Three copies of the abstract must be filed in the Office of the Graduate College.**

**Licensure.** In some cases, appropriate teaching endorsement will be recommended for those who meet the standards set by the university in conjunction with the appropriate licensure agency. Receipt of the degree is not a necessary prerequisite to recommendation for the appropriate endorsement(s) unless state standards require such. **A program graduate grade point average of 3.00 or better will be required prior to recommendation for endorsement(s).**

**Exit Requirement.** Before graduating with the Specialist in Education degree, the student must take the Praxis II test in School Psychology (number 0400) and submit a copy of the complete Examinee Score Report to the program coordinator.

**Application for Graduation.** The same regulations apply as for the master's degree. Application for graduation can be completed on paper or electronically on My-UNiverse at the time students register for their last semester of classes, or any time up to the 12th week of classes (July 1 deadline for all summer sessions). During Fall and Spring semesters, the 12th week helps assure students' names will be included in the commencement publication. After the 12th week special application for graduation must be made on paper and submitted to the academic department for approval. Paper applications are available at MyUNiverse in the forms repository, at the Office of the Registrar, or in academic departments.

## Doctor of Education Degree

Students interested in this Doctor of Education degree must submit a completed Application for Admission to Graduate Study and should contact the appropriate department for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) is required for admission to the program. There are three components to the program: 15 semester hours in a Professional Common Core of work in educational foundations, fundamentals, and

research; 38 semester hours of Advanced Professional Study in one of six areas of intensive study and a related area; and a Dissertation of 7 semester hours.

By design, then, *all* students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) Brief definitions of the six areas are as follows.

**Community Health Education.** This area of intensive study is designed to equip community health promotion and public health education professionals for positions of leadership in applied community and public health education settings. Graduates of the program are prepared for careers in applied academic settings including (but not limited to) allied health and nursing colleges, universities with a focus on teaching, and liberal arts colleges, as well as leadership positions in major community and public health organizations such as county, state, and national departments of public health, and government and non-government health organizations. (For more information, contact the Chair, Health Promotion and Education Division, School of Health, Physical Education, and Leisure Services.)

**Curriculum and Instruction.** This area of intensive study is designed to prepare scholar-practitioners to plan, implement, evaluate, and supervise educational programs for children and adult learners. (For more information, contact the Head, Department of Curriculum and Instruction.)

**Educational Leadership.** This area of intensive study involves the preparation of personnel for leadership roles in PK-12 schools, post-secondary institutions, and non-school educational settings. (For more information, contact the Head, Department of Educational Leadership, Counseling, and Postsecondary Education.)

**Leisure, Youth and Human Services.** This area of intensive study is designed to interpret and apply youth development models and concepts as well as nonprofit administrative practices to the planning, management, supervision and evaluation of informal education programs in the community. Graduates are prepared for careers as applied scholars, administrators of community nonprofit organizations, youth serving agencies, public parks and recreation, foundations, and government agencies. Program of study will be based upon student's needs, interests, and upon approval by academic advisor and program of study committee. (For more information, contact the Chair, Leisure, Youth and Human Services Division, School of Health, Physical Education, and Leisure Services.)

**Rehabilitation Studies.** This area of intensive study is designed to prepare Certified Athletic Trainers and/or other Allied Health professionals to plan, implement, evaluate, and supervise educational programs as well as develop a scholarly agenda. Graduates will be prepared for careers as athletic training program directors, clinical coordinators, applied scholars, and practicing clinicians. This program focuses on a holistic approach of preparing students by including administration, education, and rehabilitation studies within the curriculum. (For more information, contact the Chair of the Division of Athletic Training within the School of Health, Physical Education, and Leisure Services.)

**Special Education.** This area of intensive study is designed to provide students with a variety of leadership positions in public schools, higher education and human services agencies serving infants, children, youth and adults with disabilities. This program will center on preparing leaders who will be able to promote new meanings about diversity, develop inclusive school cultures and instructional programs, and forge

## Graduate Degree Requirements

productive relationships between schools and their communities. (For more information, contact the Head, Department of Special Education.)

Specific program requirements are listed within each department (Department of Curriculum and Instruction - page 115; Department of Educational Leadership, Counseling, and Postsecondary Education - page 124; School of Health, Physical Education and Leisure Services - Division of Athletic Training, page 138, and Division of Health Promotion and Education, page 141; and Department of Special Education - page 207)

## Admission to Doctoral Study

### Initial Admission

Formal application to doctoral study should be made to the appropriate intensive study area office, where descriptive materials and application packets may be obtained.

Admission to the program will be granted to those applicants who provide evidence of prior academic success; successful and appropriate professional experience; effective oral, written, and interpersonal communication skills; and professional and academic goals which may be effectively served by the degree program offered. Additional criteria may be established by an area of intensive study since some previous specialization work is presumed.

1. The applicant must hold a master's degree from a regionally accredited institution of higher education.
2. Each applicant must submit transcripts of **all** previous academic work. Applicants with a grade point average of less than 3.50 for **all** prior graduate work will not usually be considered for regular admission.
3. **Examinations.** The following examination is required of students enrolled in the Doctor of Education program:

**Graduate Record Examination.** Students applying for admission to the Ed.D. degree program must have their verbal, analytical, and quantitative sections of the Graduate Record Examination forwarded directly to the Office of the Registrar in order to be considered for degree status admission. The Graduate Record Examination is required in the doctoral intensive study areas of Community Health Education, Curriculum and Instruction, Educational Leadership, and Rehabilitation Studies.

The doctoral intensive study areas in Leisure, Youth and Human Services and Special Education require a written statement from each applicant as part of the total application packet. The written statement should articulate the applicant's professional background, reasons for seeking the doctoral degree and a statement of career goals. Also required is a sample of professional writing that will be formally assessed. The professional writing sample may consist of a master's research paper or thesis, published article, a paper prepared for presentation at a professional conference, or similar document. The Graduate Record Examination is not required.

4. The applicant must have a minimum of three years of professional educational experience.
5. Three letters of recommendation must be submitted from individuals familiar with the applicant's potential for advanced professional study, at least one from a professor familiar with the applicant as a student and at least one from an educational employer/supervisor.
6. Applicants for whom English is not their first language must complete the Test of English as a Foreign Language Examination (TOEFL) and check with their desired intensive study area regarding acceptable scores.

Provisional degree status may be recommended for an applicant who does not meet all of the requirements or for whom it is felt that



further graduate course work or professional experience would be useful in making the admission decision. Provisional degree status will not be considered for applicants whose admission files are incomplete. An individual admitted to provisional degree status must be formally reconsidered for regular admission, and course work completed during that time must be subsequently approved by an appropriate faculty committee before it may be applied to a degree.

### Candidacy Status

Soon after full admission, an advisor will be appointed for each student. In most instances, the advisor will be from the student's area of intensive study. Prior to the completion of 15 semester hours of course work toward the doctorate at the University of Northern Iowa, the student should meet with their advisor to discuss the coursework to be submitted for approval for application to their 38-hour intensive study area.

### General Regulations

1. **Scholarship.** A cumulative grade point average of 3.00 or above (on a 4.00 scale) must be maintained for all course work taken toward the Doctor of Education degree at the University of Northern Iowa. No more than 6 semester hours of C credit (C-, C, C+) earned within the program of study may be applied toward credit for graduation.
2. **Recency of credit.** Courses taken more than seven years prior to the granting of candidacy status cannot be used to meet degree requirements.
3. **Credit from Other Institutions.** Usually a maximum of 15 hours of credit from regionally accredited graduate institutions may be applied toward meeting the minimum credit hour requirements for the Doctor of Education degree (subject to the Recency of Credit regulation). Usually not more than 3 hours of acceptable transfer credit may be applied toward any given subcomponents of the *Professional Common Core*. (See Program Approval on page 66.)

*All transfer credit, including work taken prior to formal admission, is subject to review by the Dean of the Graduate College or designee, Dean or Associate Dean of the College of Education, and the College Committee for Doctoral Study. The student's doctoral advisor will make recommendations regarding the applicability of transfer credit.*

A student can apply toward a doctorate a combined maximum of 15 hours of transfer credit **and a second or third master's, or specialist degree credit (maximum of 6 hours).**

- a. **Transfer credit.** Usually a maximum of 15 hours of credit from regionally accredited graduate institutions may be applied toward meeting the minimum credit hour requirements for the Doctor of Education degree, subject to the Recency of Credit regulation. Hours that have been applied to meet the requirements of another degree cannot be transferred.
- b. **Master's degree credit.** A maximum of 6 hours of graduate



credit applied to meet the requirements of a second or third master's degree may be applied toward the doctorate, subject to the Recency of Credit regulation. These hours must be approved by the Chair of the Intensive Study Area and the Department Head.

4. **Residence credit.** Following admission to the Doctor of Education program, the student shall be enrolled for at least two courses from the approved program of study for each of two on-campus semesters.
5. **Maximum academic load.** The maximum graduate load during an academic year semester is 15 hours; for the eight-week summer session, 9 hours is the normal maximum - a maximum of 6 hours during one four-week period and 3 hours during the other four-week period; or 3 three-hour courses during an eight-week period. The maximum load during a two-week post-session is 2 hours. Exceptions to these load restrictions may be granted only by the Dean of the Graduate College or designee.
6. **Level of courses.** Credit earned as part of the candidate's program of study will be earned in courses which are at the graduate level. A minimum of 50 hours of course work at the 200- or 300-level must be completed. No more than 10 hours of credit at the 100g level (upper-level undergraduate and lower-level graduate) may apply toward this program of study.
7. **Examinations.** The following examinations are required of all students enrolled in the Doctor of Education program:
  - a. **Doctoral comprehensive examination.** The candidate requests permission to take the comprehensive examination through the Intensive Study Area office. Normally, such a request is made during the term prior to the administration of the comprehensive examination. The doctoral comprehensive examination is governed by the following conditions:
    - 1) The candidate will have completed 80 percent of her/his program of study.
    - 2) The candidate will have satisfied the research proficiency requirement.
    - 3) The examination is prepared within the guidelines established by the ISA.
    - 4) A candidate may be permitted to take the doctoral comprehensive examination a second time.

**Note:** Upon successful completion of the Doctoral Comprehensive Examination, the degree candidate achieves the status of active candidate.

**Post-comprehensive registration:** Doctoral students who have completed all of their program but the dissertation, and who have passed their comprehensive examination must be continuously registered until the degree is completed. Students reaching this stage will be automatically registered and assessed a fee for 190:300, the post-comprehensive course registration number.
  - b. **Doctoral dissertation examination.** Upon completion of her/his doctoral dissertation, the active candidate will request and submit to a public examination over the content, design, and methodology used in conducting the dissertation research.
8. **Doctoral dissertation proposal.** The student, in conjunction with her/his advisor, should make arrangements to present the dissertation proposal to the doctoral committee as a group. Formal work on the dissertation may not proceed without approval from this committee.

The dissertation committee will consist of a minimum of five members of the UNI graduate faculty. One of the five members will be appointed by the Graduate Dean to serve as the committee member from outside the College of Education as well as the repre-

sentative of the Graduate College. The names of two UNI graduate faculty must be recommended to the Graduate Dean when the Dissertation Committee Approval Form is submitted to the Graduate College. The Dean will appoint one of these people to serve on the committee.

An expansion of the committee may occur if a non-faculty member or an external faculty member from a university other than UNI, agrees to serve due to expertise or as a representative of an area of knowledge. Approval shall comprise a written petition submitted in the normal procedure. Non-faculty personnel will participate in all committee responsibilities except for signature decisions.

9. **Time limitation.** The program of study for the Doctor of Education degree must be completed within seven calendar years from the date that admission to candidacy is granted. Extensions in this time requirement should be the exception and will be granted only for good cause. Such extensions may be granted by the Dean of the Graduate College.
10. **Preview.** During the semester in which the student intends to graduate, the student must make an appointment with the Graduate College for a dissertation preview to have the style and format of the dissertation reviewed. The student must have an approved program of study on file in the Graduate College, as well as a student request filed with the members of the dissertation committee listed before a preview meeting will be scheduled. All problems may not be detected during the preview; however, the major difficulties will be discussed. Often a brief consultation will uncover format problems that are easily remedied at this stage. No dissertation will be accepted by the Graduate College for final approval without the completion of this meeting.
11. **Filing of dissertation.** A dissertation is required of all candidates for the Ed.D. degree. It will involve 7 hours of credit. The first one hour will be Dissertation Seminar. Regulations governing the physical appearance (format) may be obtained from the Graduate College. The dissertation must be in final copy form before doctoral committee members may affix their signatures for approval.

**The student must present three unbound copies of the dissertation in final form, either originals or photocopies, to the Graduate College no later than six weeks before graduation. Failure to meet this deadline will result in a delay in graduation.** The requirements for the preparation and filing of the dissertation are set forth in the *Thesis and Dissertation Manual* [www.grad.uni.edu/thesis/thesis-manual.aspx](http://www.grad.uni.edu/thesis/thesis-manual.aspx). Copies of the manual may be obtained through the Graduate College and should be consulted prior to beginning the dissertation. Final copies submitted to the Graduate College must be on white, acid free, 24-pound, 25 percent or 100 percent cotton paper. The student may purchase the approved paper at the print center in the Physical Plant. Final copies must be clean and suitable for microfilming, with uniform darkness and a sharp imprint.

In addition, student should check with the department granting the degree for the number of copies required, as the number varies.

12. **Abstracts of dissertation.** Three copies of an abstract of the dissertation must be filed in the Graduate College Office at the time of final deposit of the dissertation. Regulations for the dissertation also apply to the abstract. The abstract must not exceed 350 words in length. Please see the most current edition of *Thesis and Dissertation Manual* [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx), for details.
13. **Publishing Agreement.** A Publishing Microfilm Agreement and Survey of Earned Doctorates must be completed and returned to the Graduate College with the final dissertation. An additional copy of the dissertation and abstract must be submitted to accompany the publishing agreement. This copy may be on regular printer paper.

## Graduate Degree Requirements

The University of Northern Iowa participates in a program sponsored by the Association of Research Libraries and conducted by University Microfilms, Ann Arbor, Michigan, for reproduction of doctoral dissertations on microfilm. If the dissertation has been copyrighted, this information must be included on the university agreement form.

14. **Dissertation fees.** Several fees are required in connection with the dissertation; these include:
  - a. a binding fee for the library and department copies of the dissertation. If a student wishes to bind additional copies, individual arrangements with a binder must be made.
  - b. a microfilm fee to cover the cost of microfilming the dissertation and publishing the abstract.
  - c. a copyright fee if the student wishes to have the dissertation copyrighted.Students should check with the Graduate College office for the amount of each of the above fees.

The binding, microfilming, and copyrighting fees must be paid at the UNI Office of Business Operations and a copy of the receipt submitted to the Graduate College at the time the final copy of the dissertation is deposited.
15. **Application for Graduation.** Candidates for the Doctor of Education degree must make application for graduation on appropriate university forms. Application for graduation can be completed on paper or electronically on My-UNiverse at the time students register for their last semester of classes, or any time up to the 12th week of classes (July 1 deadline for all summer sessions). During Fall and Spring semesters, the 12th week helps assure students' names will be included in the commencement publication. After the 12th week special application for graduation must be made on paper and submitted to the academic department for approval. Paper applications are available at MyUNiverse in the forms repository, at the Office of the Registrar, or in academic departments.
16. **Attendance at commencement.** The candidate for the Doctor of Education degree is expected to secure the appropriate academic regalia and appear at commencement for the awarding of the degree.

## Doctor of Industrial Technology Degree

Students interested in Doctor of Industrial Technology degree must submit a completed Application for Admission to Graduate Study and should contact the Department of Mathematics for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The University of Northern Iowa offers the Doctor of Industrial Technology degree to meet the increasing need for advanced degree work in this field. Industrial technology is a relatively new and rapidly expanding knowledge base for a wide variety of professional fields: these include technology, trade and industrial education, technical institute education, industrial training, and technology transfer. This research-oriented degree program also includes the study of the technological systems used in industry and their effect on society and culture.

The Doctor of Industrial Technology degree is designed to develop scholars in the fields of education and industry. Programs emphasize the development of a thorough knowledge of (a) industrial technology as an intellectual discipline, (b) the technological systems used in industry and their effect on people and the environment, and (c) the potential and limitations of future developments in technological systems and their utilization in industry. Program emphasis is on providing the intellectual tools necessary to pursue scholarly research and applied practices in the field of industrial technology. Efforts will be made to develop in each

student the interest and desire required for a leadership role in improving educational and industrial programs and determining directions for future programs. The degree program requires a **minimum of 64 semester hours** of credit completed **beyond the master's degree**.

Specific program requirements are listed on page 154.

The Doctor of Industrial Technology degree program is intended to prepare graduates for one or more of the following professional careers:

1. Faculty, supervisors, and consultants of industrial technology, trade and industrial education, technical institute education and technology education in secondary schools, colleges and universities.
2. Researchers and project coordinators, technology transfer specialists, technology forecasters and assessors of technology for industrial policy planning and decision making.
3. Leaders (e.g., deans, department heads, or directors) of technology-oriented programs at postsecondary institutions.
4. Researchers and research coordinators for education and industry in specific content fields of industrial technology.
5. Designers, coordinators and directors of industrial training or human resource programs, and related industrial applications.

## Admission to Doctoral Study

### Application for Admission

Individuals possessing the master's degree in Industrial Technology, Technology Education, Technology or a related technical program, from any accredited institution may apply for admission to the Doctor of Industrial Technology degree program.

Applicants in the final semester or summer session of work on the master's degree may submit application materials and be admitted on provisional degree status until the master's degree notification is received in the Office of the Registrar.

### Types of Admissions

Admission to the Doctor of Industrial Technology degree program may be granted on a *degree status* or *provisional status* basis.

#### 1. Degree Status Admission.

- a) The applicant must hold a master's degree with an education or industry specialization in a content field in or related to industrial technology; the degree must have been granted by a nationally accredited institution or internationally reputable institution.
- b) Each applicant must have an overall grade point average of **3.20 on all** prior graduate course work.
- c) The applicant must have completed the Graduate Record Examination (GRE) and have her/his percentile scores forwarded directly from the testing agency to the Office of the Registrar. These scores must rank in the 30th percentile or higher for each of the verbal, analytical, and quantitative sections. **The department will not be able to make an admission decision (degree status or provisional) until official GRE scores are on file.**
- d) Three references from persons familiar with the academic and professional potential of the applicant must be submitted.
- e) Applicants for whom English is not their first language must complete the Test of English as a Foreign Language Examination (TOEFL) and **achieve a score of at least 575 (paper-based)/230 (computer-based).**
- f) Each applicant must have a minimum of three years of professional-level educational or industrial experience in/or related to the major field of specialization. Individuals without this experience may be admitted to the program but appropriate professional experience must then be included in the program

of study. What constitutes appropriate professional experience will be determined by the student's faculty advisory committee and this requirement will be included in the student's program of study.

- g) All applications for admission will be reviewed by the Department of Industrial Technology Graduate Programs Committee. The committee may recommend degree status only if the candidate meets all the above requirements.

## 2. Provisional Degree Status.

- a) *Provisional* degree status admission *may be* recommended if an applicant does not meet all the above requirements or if the committee believes further graduate course work or professional experience is desirable prior to an applicant's being approved for *degree status* admission. (See guidelines regarding provisional status.) The committee may require a personal interview with an individual before taking action on an application for admission.
- b) Applicants admitted on provisional status must meet one or both of the following criteria before they may be reconsidered for degree status:
  - 1) completion of all deficiencies for admission to degree status.
  - 2) completion of 9 hours for a summer session or 12 hours during a spring or fall semester with a minimum grade point average of **3.20** in course work recommended by the faculty advisor appointed by the department head. Course work completed while the individual is on provisional degree status admission may be applied toward degree requirements only if it is approved by the faculty advisory committee assigned to the student.

## Faculty Advisory Committees

After admission has been granted, a faculty advisory committee will be appointed by the Graduate Dean in consultation with the Head of the Department of Industrial Technology. The student and the faculty advisor will be responsible for recommending members for appointment to the faculty advisory committee. The student should then specify in a letter to the Graduate Coordinator the rationale for each graduate faculty member recommended to serve on the committee. The committee will consist of three members from the Department of Industrial Technology and two members from outside the department, one of whom will be a representative of the Graduate College assigned by the Graduate Dean. Eligible committee members from within the Department of Industrial Technology will serve as chair and co-chair. The five committee members must be members of the University of Northern Iowa Graduate Faculty. An expansion of the committee may occur if a non-faculty person agrees to serve due to expertise or as a representative of an area of knowledge. Approval shall comprise a written petition submitted in the normal procedure. Non-faculty personnel will participate in all committee responsibilities except for signature decisions. This advisory committee shall have the responsibility for the following:

- 1. approval of the application for candidacy (Professional Career Development Plan) and the Application for Program Approval or program of study for the individual student.
- 2. personal interview with student after completion of the Professional Career Development Plan (PCDP).
- 3. preparation and evaluation of comprehensive written and oral examinations.
- 4. determination of any remedial requirements after comprehensive written and oral examinations are completed.
- 5. approval of publication requirement before allowing student to submit dissertation proposal.

- 6. approval of dissertation proposal and supervision of dissertation effort.
- 7. final approval of completed dissertation.
- 8. preparation and evaluation of oral examination over dissertation.
- 9. recommendation of candidate for degree.

All but one of the voting committee members must approve all actions of the committee.

Should it then be necessary to request changes in the composition of the committee, the graduate student must specify in a letter to the departmental Graduate Coordinator the rationale for the replacement. A disagreement in perspective, thought, or position may not be cause for replacement. Any faculty member choosing to resign from the committee must submit a letter of request to the departmental Graduate Coordinator.

## Admission to Candidacy

Students will usually apply for admission to candidacy and submit programs of study for approval during their first semester or second summer session in residence. **All** course work in progress or completed prior to applying for admission to program approval must be subsequently approved by the faculty advisory committee in order to be counted on a student's program of study.

Admission to candidacy will be recommended to the department head only after a formal interview of the student has been conducted by the faculty advisory committee.

Any changes made in course requirements must be approved by the faculty advisory committee and the Dean of the Graduate College or designee.

## General Regulations

- 1. **Scholarship. A cumulative grade index of 3.00 (B average) must be earned at the University of Northern Iowa in all courses attempted as a graduate student.** No credit toward graduation will be allowed for courses in which the earned grade is below C- and a maximum of 6 hours of C credit (C-, C, C+) earned within the program of study may be applied toward credit for graduation.
- 2. **Recency of credit.** Courses taken more than seven years prior to the granting of the degree cannot be used to meet degree requirements.
- 3. **Credit from other institutions.** A student can apply toward the doctorate **either** transfer credit (a maximum of 12 hours) or credit from a second or third master's degree (maximum of 6 hours), **but not both or any combination of the two.**
  - a. **Transfer credit.** Usually a maximum of 12 semester hours of graduate credit from other accredited institutions may be applied toward meeting minimum credit hour requirements for the Doctor of Industrial Technology degree, subject to the Recency of Credit regulation. **Hours that have been applied to meet the requirements of another degree cannot be transferred.**

Credit may not be transferred if taken four years prior to application for admission to the Doctor of Industrial Technology degree program, taking into consideration three years for degree completion. The student's faculty advisory committee will make recommendations regarding the applicability of transfer credit. (See program approval on pages 66-67.)
  - b. **Master's degree credit.** A maximum of 6 hours of graduate credit applied to meet the requirements of a second or third master's degree may be applied toward the doctorate, subject to the Recency of Credit regulation. These hours must be approved by the Doctor of Industrial Technology Advisory Committee or the Graduate Programs Committee and the

## Graduate Degree Requirements

department head.

4. **Residence credit.** The student must be enrolled in continuous, full-time study for one academic year plus the preceding or following summer session. The student shall be enrolled for a minimum of 18 hours of credit which may be distributed across three semesters over two consecutive academic years. Persons serving as graduate assistants in the department will be considered full-time if they carry at least 9 hours per semester in addition to the assistantship. Dissertation research will not be used to satisfy the residency requirement.
5. **Maximum academic load.** The maximum graduate student load during each semester of the academic year is 15 hours, and 12 hours for those with an assistantship; that permitted during the eight-week summer session is 9 hours and during the two-week post-session, 2 hours.
6. **Level of courses.** A minimum of 38 hours must be in 200- or 300-level course work. All 100(g) series courses available in the Department of Industrial Technology require activities beyond those required for undergraduate students; and some courses require activities for doctoral students beyond those required of pre-doctoral students.
7. **Professional Career Development Plan (PCDP).** The candidate consults with the chairperson of the advisory committee in the development of the Professional Career Development Plan which requires approval by the candidate's faculty advisory committee. The PCDP includes a statement of the candidate's career goals, a compilation of the competencies and other skills already possessed along with supporting evidence, and a proposed plan of study to achieve the remaining career goal competencies. It requires both a written component and an oral interview. The PCDP must be completed early in the first or second semester or summer session in residence.
8. **Examinations.** The following examinations are required of all students working toward the Doctor of Industrial Technology degree:
  - a. **Graduate Record Examination.** Students applying for admission to the D.I.T. degree program must have their verbal, analytical, and quantitative sections of the Graduate Record Examination forwarded directly to the Office of the Registrar in order to be considered for degree status admission. Their percentile scores must rank in the 30th percentile or higher for each of the verbal, analytical, and quantitative sections of the Graduate Record Examination.
  - b. **D.I.T. comprehensive examination.** The comprehensive examination is intended to be an evaluation of the candidate's mastery of the entire planned program of study, including the tools of research. It is used to evaluate the candidate's mastery of the subject at or near the end of the program but prior to initiating the research activity for the dissertation. It should be prepared, administered, and evaluated by the candidate's faculty advisory committee upon completion of all core program requirements, excluding dissertation research work, and upon the completion of at least 80 percent of the proposed elective courses in the program. The written portion will consist of three 4-hour periods. The dates will be scheduled in consultation with the advisor. Upon satisfactory completion of the written portion, the faculty advisory committee will conduct the oral portion with the candidate present. The oral portion shall be opened to faculty who provided questions for the written portion.

Successful completion of both the written and oral portions of the comprehensive examination are required. The comprehensive examination will be evaluated at a convened meeting of the faculty advisory committee and reported as satisfactory or unsatisfactory to the Graduate Dean via the Graduate Coordinator and Head, Department of Industrial

Technology.

In the event of a report with three or more votes of satisfactory with reservations in either portion, the exact stipulations of the committee should be recorded on the report form. The statement must specify the time allowed for satisfying the stipulations and must be specific in defining the area if further examination in a particular area is necessary, or in describing any additional courses, actions or procedures that are required. The examination cannot be deemed complete or reportable until such stipulations have been satisfied.

Successful completion of the comprehensive examination will be reported if four of five committee members indicate a satisfactory report on both the written and the oral portions. In case of a report of unsatisfactory on a portion of the examination, a second examination must be administered in the next succeeding semester or summer session. A candidate will be permitted two opportunities to achieve a satisfactory report. A third opportunity will only be allowed with a special approval by the department head upon the recommendations of four of the five members of the faculty advisory committee. The candidate receiving an unsatisfactory report in the final opportunity by the convened faculty advisory committee will not be permitted to continue or complete the program of graduate studies, and upon submission of the report form to the Head, Department of Industrial Technology, and Graduate Dean via the Graduate Program Coordinator, the faculty advisory committee for this candidate will be dissolved.

**Post-comprehensive registration:** Doctoral students who have completed all of their program requirements except the dissertation, and who have passed their comprehensive examination must be continuously registered until the degree is completed. Students reaching this stage will be automatically registered and assessed a fee for 330:300, the post-comprehensive course registration number.

- c. **Dissertation Examination.** An oral examination is required over the content and methodology used in conducting the research associated with the student's dissertation. The examination is conducted by the student's faculty advisory committee after the dissertation has been presented to the faculty advisory committee in final form.
9. **Publication.** Before being allowed to submit a dissertation proposal, the student must submit at least one scholarly paper for publication in a periodical, journal, or textbook within one of the professional fields related to industrial technology. The faculty advisory committee shall determine when this requirement is met. Publication completed prior to admission to the program may be submitted for consideration.
10. **Dissertation.** A minimum of four final copies of the accepted dissertation are required to be delivered to the Office of the Graduate Dean no later than two weeks before graduation. Three copies of the dissertation must be on white, acid free, 24-pound (minimum weight), 25 percent or 100 percent cotton paper (erasable paper is not acceptable). The student may purchase the approved paper at the print center in the Physical Plant. The fourth copy may be printed on plain paper, but must be clean and suitable for microfilming with uniform darkness and a sharp imprint. In addition, students should check with the department granting the degree regarding the number of copies required.
11. **Abstracts of dissertation.** Three copies of an abstract of the dissertation must be filed in the Graduate College at the time of final deposit of the dissertation. Regulations for the dissertation also apply to the abstract. The abstract must not exceed 350 words in length.

Please see the most current edition of the *Thesis and Dissertation Manual* [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx) for details.

12. **Publishing agreement.** A Publishing Agreement must be completed and returned to the Graduate College with the final dissertation. The University of Northern Iowa participates in a program sponsored by the Association of Research Libraries and conducted by University Microfilms, Ann Arbor, Michigan, for reproduction of doctoral dissertations on microfilm. If the dissertation has been copyrighted, this information must be included on the university microfilm agreement form.

13. **Dissertation fees.** Several fees are required in connection with the dissertation; these include:
  - a. a binding fee for the two library copies of the dissertation. If students wish or their home department requires binding additional copies, individual arrangements are made through the home department.
  - b. a publishing fee to cover the cost of microfilming the dissertation and publishing the abstract.
  - c. a copyright fee if the student wishes to have the dissertation copyrighted.

Students should check the Graduate College Web site [www.grad.uni.edu/thesis/thesismanual.aspx](http://www.grad.uni.edu/thesis/thesismanual.aspx) for the most current edition of the *Thesis and Dissertation Manual* for the amount of each of the above fees.

The binding, microfilming, and copyrighting fees must be paid at the UNI Office of Business Operations and a copy of the receipt submitted to the Graduate College at the time the final copies of the dissertation are deposited.

14. **Credit hour requirements.** A minimum of 64 semester hours of credit must be completed beyond the master's degree. At least 52 hours of these credits must be earned at the University of Northern Iowa. At least 38 of the credit hours used for meeting minimum credit hour requirements for the degree must be in 200- or 300-level course work.
15. **Research requirements.** A dissertation is required of all candidates. Dissertation Research credit (330:399) of 12 semester hours will be granted for the successful completion of the dissertation. Students may register for the research courses after successful completion of the research methods courses noted in their doctoral program. The instructor of these courses, or advisor, may assign an *RC (Research Continued)*, if s(he) feels the work has not reached the stage where it can be evaluated. Registration for the last segment of research credit for which a student registers (for work on her/his dissertation) should be postponed until the paper is near completion. The Registrar may authorize the extension of time for completion of an *RC (Research Continued)* in research up to one additional calendar year with the consent of the instructor. If at the end of that time the work has not been completed, the *RC* will be changed to an *F (Failure)*. All dissertation research credit is recorded as *RC (Research Continued)* until the faculty advisory committee has conducted the final oral examination over the dissertation and given final approval for the dissertation.
16. **Filing of dissertations.** The dissertation must be submitted in final form to the faculty advisory committee at least seven weeks prior to graduation. Regulations governing the preparation of dissertations may be obtained from the Graduate College.
17. **Application for graduation.** The candidate for the Doctor of Industrial Technology degree must make application for graduation on appropriate university forms. Application for graduation can be completed on paper or electronically on My-UNiverse at the time students register for their last semester of classes, or any time up to the 12th week of classes (July 1 deadline for all summer sessions).

During Fall and Spring semesters, the 12th week helps assure students' names will be included in the commencement publication. Applications received after the dates designated will be placed with those for the following session. Paper applications are available at MyUNiverse in the forms repository, at the Office of the Registrar, or in the Department of Industrial Technology.

18. **Attendance at commencement.** The candidate for the Doctor of Industrial Technology degree is expected to secure the appropriate academic regalia and appear at commencement for the awarding of the degree.

# Program Requirements

## (Undergraduate, Graduate, and Program Certificates)

All undergraduate and graduate programs (degrees/majors/minors/program certificates) are listed within the specific department offering the program.

Interdisciplinary programs or programs under the supervision of a college (i.e., M.B.A. in the College of Business) or several colleges, several departments, or committee(s) (rather than a specific department) are listed in the "Interdisciplinary" section *after* the Department of Industrial Technology.

## Alphabetical listing by departments:

### Department of Accounting - (page 85)

#### Undergraduate Majors (B.A.) - (page 85)

Accounting

#### Minors - (page 86)

Accounting-Business

Accounting

#### Graduate Major (MAcc) - (page 86)

Master of Accounting

### Department of Art - (page 87)

#### Undergraduate Major (B.F.A.) - (page 88)

Art: Studio B.F.A.

#### Undergraduate Majors (B.A.) - (page 88)

Art-Studio Emphasis

Art-Art History Emphasis

Art Education-Teaching

#### Minors - (page 89)

Art

Art-Teaching

Art (K-8)-Teaching

#### Graduate Majors (M.A.) - (page 89)

Art

Art Education Emphasis

Art Education With Certification for Licensure Option

Studio Emphasis

### Department of Biology - (page 90)

#### Undergraduate Major (B.S.) - (page 91)

Biology

#### Undergraduate Majors (B.A.) - (page 91)

Biology

Biology: Biomedical Emphasis

Biology: Ecology and Systematics Emphasis

Biology: Microbiology Emphasis

Biology: Plant Bioscience Emphasis

Biology-Teaching

Biotechnology

Combined B.A./M.S. or B.S./M.S. Program Biology

#### Minors - (page 94)

Biology

Biology-Teaching

Natural History Interpretation

#### Graduate Major (M.A.) - (page 94)

Biology

#### Graduate Major (M.S.) - (page 95)

Biology

#### Graduate Majors (P.S.M.) - (page 95)

Biotechnology

Ecosystem Management

### Department of Chemistry and Biochemistry

- (page 96)

#### Undergraduate Majors (B.S.) - (page 96)

Biochemistry

Chemistry

Environmental Chemistry Emphasis

#### Undergraduate Majors (B.A.) - (page 97)

Biochemistry

Chemistry

Combined B.A./M.S. Program Chemistry

Chemistry-Teaching

Chemistry-Marketing

#### Minors - (page 98)

Chemistry

Chemistry-Teaching

#### Graduate Major (M.A.) - (page 98)

Chemistry

#### Graduate Major (M.S.) - (page 99)

Chemistry

#### Graduate Major (P.S.M.) - (page 99)

Applied Chemistry and Biochemistry

### Department of Communication Sciences and Disorders - (page 99)

#### Undergraduate Major (B.A.) - (page 100)

Communicative Disorders

#### Minor - (page 100)

Speech-Language-Hearing Sciences

#### Graduate Major (M.A.) - (page 100)

Speech-Language Pathology

### Department of Communication Studies

- (page 101)

#### Undergraduate Majors (B.A.) - (page 102)

Communication (Liberal Arts)

Communication-Theatre-Teaching (also listed in Department of Theatre)

Communication/Electronic Media

Communication/Public Relations

Political Communication (also listed in Department of Political Science)

#### Minors - (page 103)

Business Communication (also listed in Department of Management)

Communication Studies (Liberal Arts)

Communication-Theatre-Teaching (also listed in Department of Theatre)

Communication/Journalism (Liberal Arts)

Communication/Public Relations

#### Graduate Major (M.A.) - (page 104)

Communication Studies

#### Program Certificates - (page 105)

Certificate in Public Speaking

Graduate Certificate in Corporate Communication

## Department of Computer Science - (page 106)

### Undergraduate Majors (B.S.) - (page 106)

Bioinformatics  
Computer Science  
Networking and System Administration

### Undergraduate Majors (B.A.) - (page 107)

Computer Information Systems  
Computer Science

### Minors - (page 107)

Bioinformatics  
Computer Information Systems  
Computer Science

### Graduate Major (M.S.) - (page 108)

Computer Science

### Program Certificates - (page 108)

Certificate in Software Testing  
Certificate in Computer Applications

## Department of Curriculum and Instruction - (page 108)

### Undergraduate Majors (B.A.) - (page 109)

Early Childhood Education-Teaching  
Elementary Education-Teaching (K-6 General Classroom Teacher)

#### *Endorsement Minors/Concentrations:*

Art (K-8)-Teaching  
Basic Science (K-8)-Teaching  
Elementary School Teacher Librarian (K-8)-Teaching  
Health Education (K-8)-Teaching  
History (K-8)-Teaching  
Mathematics (K-8)-Teaching  
Modern Languages (K-8)-Teaching  
Physical Education (K-8)-Teaching  
Social Studies (K-8)-Teaching  
Special Education-Teaching

Middle Level Education Dual Major-Teaching

### Minors - (page 112)

Educational Technology  
Literacy Education-Teaching  
Media  
School Teacher Librarian-Teaching

### Graduate Majors (M.A.) - (page 112)

Curriculum and Instruction: Instructional Technology  
Performance and Training Technology  
School Library Studies

### Graduate Majors (M.A.E.) - (page 114)

Curriculum and Instruction: Early Childhood Education  
Curriculum and Instruction: Education of the Gifted  
Curriculum and Instruction: Elementary Education  
Curriculum and Instruction: Literacy Education  
Curriculum and Instruction: Middle Level Education

### Graduate Major (Ed.D.) - (page 115)

Doctor of Education: Curriculum and Instruction intensive study area

### Program Certificate - (page 116)

Instructional Technology Facilitator Certificate

## Department of Design, Textiles, Gerontology, & Family Studies - (page 116)

### Undergraduate Majors (B.A.) - (page 116)

Family Services  
Interior Design  
Textile and Apparel  
Gerontology

### Minors - (page 118)

Family Studies  
Gerontology  
Textile and Apparel

## Department of Earth Science - (page 119)

### Undergraduate Majors (B.S.) - (page 119)

Air Quality  
Geology

### Undergraduate Majors (B.A.) - (page 120)

Earth Science  
Earth Science-Interpretive Naturalist Emphasis  
Earth Science-Teaching  
Geology With Environmental Science Emphasis  
Geology

### Minors - (page 121)

Astronomy  
Earth Science  
Earth Science-Teaching  
Geology  
Meteorology

## Department of Economics - (page 121)

### Undergraduate Major (B.A.) - (page 121)

Economics

### Minors - (page 122)

Economics-Liberal Arts  
Economics-Teaching

### Program Certificate - (page 122)

Certificate in Community Economic Development

## Department of Educational Leadership, Counseling and Postsecondary Education - (page 123)

### Graduate Major (M.A.) - (page 123)

Mental Health Counseling

### Graduate Majors (M.A.E.) - (page 123)

Postsecondary Education: Student Affairs  
Principalship  
School Counseling

### Graduate Major (Ed.D.) - (page 124)

Doctor of Education: Educational Leadership intensive study area

### Program Certificates - (page 125)

Advanced Studies Certificate in Educational Leadership  
Emphasis: Principalship  
Emphasis: Superintendency Preparation

## Program Requirements

### Department of Educational Psychology and Foundations - (page 126)

#### Graduate Majors (M.A.E.) - (page 126)

Educational Psychology

Educational Psychology: Professional Development for Teachers

#### Graduate Major (Ed.S.) - (page 127)

Specialist in Education: School Psychology

### Department of English Language and Literature - (page 127)

#### Undergraduate Majors (B.A.) - (page 128)

English

English-Teaching

Teaching English to Speakers of Other Languages (TESOL)

Teaching English to Speakers of Other Languages (TESOL)-Teaching

TESOL/Modern Language-Teaching (also listed in Department of Modern Languages)

#### Minors - (page 129)

Comparative Literature (also listed in Department of Modern Languages)

English

English-Teaching

Teaching English to Speakers of Other Languages (TESOL)

Teaching English to Speakers of Other Languages (TESOL)-Teaching

Writing

#### Graduate Majors (M.A.) - (page 130)

English

Teaching English to Speakers of Other Languages (TESOL)

TESOL/Modern Languages (also listed in Department of Modern Languages)

#### Program Certificate - (page 132)

Certificate in Post-Colonial and Multicultural Literary Studies

### Department of Finance - (page 133)

#### Undergraduate Majors (B.A.) - (page 133)

Finance

Real Estate

#### Minors - (page 134)

Finance (for Business and Non-Business Majors)

Real Estate-Business

Real Estate

#### Program Certificate - (page 134)

Financial Analysis

### Department of Geography - (page 134)

#### Undergraduate Majors (B.A.) - (page 134)

Geography

Geography with Environmental Emphasis

Geography with Geographic Information Science Emphasis

Geography-Teaching

#### Minors - (page 135)

Geography-Liberal Arts

Geography-Teaching

#### Graduate Major (M.A.) - (page 135)

Geography

#### Program Certificate - (page 136)

Certificate in Cartography and Geographic Information Systems (GIS)

### School of Health, Physical Education, and Leisure Services - (page 136)

#### Division of Athletic Training - (page 137)

##### Undergraduate Major (B.A.) - (page 137)

Athletic Training

##### Graduate Major (M.S.) - (page 138)

Athletic Training

##### Graduate Major (Ed.D.) - (page 138)

Doctor of Education: Rehabilitation Studies intensive study area

#### Division of Health Promotion and Education - (page 139)

##### Undergraduate Majors (B.A.) - (page 139)

Health Education-Teaching

Health Promotion

##### Minors - (page 140)

Health Education-Teaching

Health Promotion

##### Graduate Major (M.A.) - (page 140)

Health Education

##### Graduate Major (Ed.D.) - (page 141)

Doctor of Education: Community Health Education intensive study area

##### Program Certificates - (page 141)

Environmental Health Certificate

Certificate in Global Health and Health Disparities

#### Division of Physical Education - (page 142)

##### Undergraduate Majors (B.A.) - (page 142)

Movement and Exercise Science

Physical Education-Teaching

##### Minors - (page 142)

Coaching

Dance

Physical Education-Elementary Teaching

##### Graduate Major (M.A.) - (page 143)

Physical Education

#### Division of Leisure, Youth and Human Services - (page 144)

##### Undergraduate Major (B.A.) - (page 144)

Leisure, Youth and Human Services

##### Minors - (page 145)

Leisure, Youth and Human Services

Youth Services Administration

##### Graduate Major (M.A.) - (page 145)

Leisure, Youth and Human Services

##### Graduate Major (Ed.D.) - (page 146)

Doctor of Education: Leisure, Youth and Human Services intensive study area

##### Program Certificates - (page 146)

Aquatics Specialization Certificate

Nonprofit Management and American Humanics Certificate

Outdoor Recreation Certificate

School-Age Care Leadership Certificate

Tourism Certificate



## Department of History - (page 147)

### Undergraduate Majors (B.A.) - (page 147)

European Studies (also listed in Department of Modern Languages)  
History-Liberal Arts  
History-Teaching

### Minors - (page 148)

History  
History-Teaching  
History (K-8)-Teaching

### Graduate Major (M.A.) - (page 149)

History

### Program Certificate - (page 149)

Certificate in Public History

## Department of Industrial Technology

- (page 150)

### Undergraduate Majors (B.S.) - (page 150)

Construction Management  
Electrical and Information Engineering Technology (EIET)  
Manufacturing Technology

### Undergraduate Majors (B.A.) - (page 151)

Graphic Communications  
Technology Education and Training-Teaching  
Technology Education and Training-Training  
Technology Management  
Combined B.A./M.S. or B.S./M.S.-Technology

### Minors - (page 152)

Electrical and Electronics Technology (EET)  
Graphic Communications  
Technology Education and Training-Teaching  
Technology Management

### Graduate Major (M.S.) - (page 152)

Technology

### Graduate Major (D.I.T.) - (page 154)

Doctor of Industrial Technology

### Program Certificates - (page 154)

Advanced Technology Certificate  
Technology Management Certificate

## Interdisciplinary Programs (under the supervision and jurisdiction of a college or several colleges, several departments, or committee) - (page 155)

### Undergraduate Majors (B.A.)/Minors - (page 155)

American Ethnic Studies Minor  
American Studies Major  
Asian Studies Major  
Asian Studies Minor  
Environmental Studies Minor  
General Studies Major  
Humanities Major  
Humanities Minor  
Individual Studies Major  
International Business Minor  
International Business Minor (Non-Business Majors)  
Leadership Studies Minor  
Russian and East European Studies Minor  
Women's and Gender Studies Minor

### Graduate Majors (M.A.) - (page 160)

Philanthropy and Nonprofit Development

Women's and Gender Studies

### Graduate Major (M.B.A.) - (page 161)

Master of Business Administration

### Graduate Majors (M.P.P.) - (page 161)

Master of Public Policy  
Accelerated Master of Public Policy

### Graduate Majors (M.S.) - (page 162)

Environmental Science/Technology and Health  
Environmental Science Emphasis  
Environmental Technology Emphasis  
Environmental Health Emphasis  
Combined B.A./M.S. or B.S./M.S. Environmental Science/  
Technology and Health

### Program Certificates - (page 163)

Certificate in International Business, Culture, and Language  
Certificate in Leadership Foundations  
Conflict Resolution Certificate  
Graduate Certificate in Women's and Gender Studies

## Iowa Lakeside Lab (faculty listing) - (page 165)

## Department of Management - (page 165)

### Undergraduate Majors (B.A.) - (page 165)

Management  
Management Information Systems  
Business Teaching

### Minors - (page 166)

Business Communication (also listed in Department of Communication Studies)  
Business Teaching  
General Business Concepts

### Program Certificate - (page 167)

Training and Development in Business Certificate

## Department of Marketing - (page 167)

### Undergraduate Majors (B.A.) - (page 168)

Chemistry-Marketing  
Marketing

### Minor - (page 168)

Marketing (Non-Business Majors)

### Program Certificates - (page 168)

Certificate in Entrepreneurship  
Certificate in Marketing Research and Consulting

## Department of Mathematics - (page 169)

### Undergraduate Majors (B.A.) - (page 169)

Mathematics  
Mathematics-Computer Science Emphasis  
Mathematics-Statistics and Actuarial Science  
Mathematics-Teaching

### Minors - (page 170)

Mathematics  
Mathematics-Teaching  
Mathematics (K-8)-Teaching  
Statistics and Actuarial Science

### Graduate Majors (M.A.) - (page 171)

Mathematics  
Mathematics Emphasis  
Secondary Teaching Emphasis  
Mathematics for the Middle Grades (4-8)

## Program Requirements

### **Graduate Majors (P.S.M.)** - (page 171)

Industrial Mathematics:

Continuous Quality Improvement Option

Mathematical Computing and Modeling Option

### **Program Certificate** - (page 172)

Continuous Quality Improvement Certificate

## **Department of Military Science** - (page 172)

### **Minor** - (page 172)

Military Science Minor

## **Department of Modern Languages** - (page 173)

### **Undergraduate Majors (B.A.)** - (page 174)

European Studies (also listed in Department of History)

Modern Languages Dual

Modern Languages Dual-Teaching

French Studies

French Studies-Teaching

German

German-Teaching

Russian

Spanish

Spanish-Teaching

TESOL/Modern Language-Teaching (also listed in  
Department of English Language and Literature)

### **Minors** - (page 177)

Comparative Literature (also listed in Department of English  
Language and Literature)

French Studies

French-Teaching

German

German-Teaching

Portuguese

Portuguese-Teaching

Russian

Russian-Teaching

Spanish

Spanish-Teaching

### **Graduate Majors (M.A.)** - (page 178)

French

German

Spanish

TESOL/Modern Language (also listed in Department of  
English Language and Literature)

Major in Two Languages: French/German, Spanish/French,  
German/Spanish

### **Program Certificates** - (page 180)

Certificate in French Language Studies

Certificate in German Language Studies

Certificate in Hispanic and Portuguese Studies

Certificate in Hispanic Cultures

Certificate in Portuguese Studies

Certificate in Russian Language Studies

Certificate in Spanish Language Studies

Certificate in Spanish for Special Purposes

International Commerce Certificate

Certificate in Translation (in French, German, Portuguese,  
Russian, or Spanish)

## **School of Music** - (page 181)

### **Undergraduate Major (B.A.)** - (page 182)

Music

### **Minors** - (page 183)

Jazz Studies

Music

### **Undergraduate Majors (B.M.)** - (page 183)

Composition-Theory

Music Education

Performance

### **Graduate Major (M.A.)** - (page 184)

Music

### **Graduate Majors (M.M.)** - (page 185)

Composition

Conducting

Jazz Pedagogy

Music Education

Music History

Performance

Piano Performance and Pedagogy

### **Program Certificates** - (page 188)

Artist Diploma I

Artist Diploma II

## **Department of Philosophy and World Religions** - (page 188)

### **Undergraduate Majors (B.A.)** - (page 188)

Philosophy

Study of Religion

Philosophy/Religion/Business: Combined Five-Year B.A./  
M.B.A. Program

### **Minors** - (page 189)

Ethics

Philosophy

Religion

### **Program Certificate** - (page 189)

Youth Development in Religious Settings Certificate

## **Department of Physics** - (page 190)

### **Undergraduate Majors (B.S.)** - (page 190)

Applied Physics

Physics

### **Undergraduate Majors (B.A.)** - (page 191)

Physics

Physics-Teaching

Combined B.A./P.S.M. or B.S./P.S.M. Applied Physics

### **Minors** - (page 191)

Nanoscience and Nanotechnology

Physics

Physics-Teaching

### **Graduate Major (P.S.M.)** - (page 192)

Applied Physics

## **Department of Political Science** - (page 192)

### **Undergraduate Majors (B.A.)** - (page 192)

Political Communication (also listed in Department of  
Communication Studies)

Political Science-Liberal Arts

Political Science-Teaching

Public Administration

**Minors** - (page 193)

International Affairs-Liberal Arts  
Political Science-Liberal Arts  
Political Science-Teaching  
Politics and Law

**Program Certificates** - (page 194)

Certificate in International Peace and Security  
Certificate in State and Local Government

**Department of Psychology** - (page 195)

**Undergraduate Majors (B.A.)** - (page 195)

Psychology  
Psychology-Teaching

**Minors** - (page 196)

Psychology  
Psychology-Teaching

**Graduate Major (M.A.)** - (page 196)

Psychology

**Program Certificates** - (page 197)

Industrial and Organizational Psychology Certificate  
Certificate in Psychology of Employee Development

**Science and Science Education** - (page 197)

**Undergraduate Majors (B.A.)** - (page 197)

All Science Teaching  
Middle/Junior High School Science Teaching

**Minor** - (page 198)

Basic Science (K-8)-Teaching

**Graduate Major (M.A.)** - (page 198)

Science Education

**Social Science** - (page 199)

**Undergraduate Majors (B.A.)** - (page 199)

Social Science-Teaching-Plan A - Specialist  
Social Science-Teaching-Plan B - All Social Science

**Graduate Major (M.A.)** - (page 201)

Social Science

**Department of Social Work** - (page 201)

**Undergraduate Major (B.A.)** - (page 201)

Social Work

**Graduate Major (M.S.W.)** - (page 202)

Social Work

**Program Certificates** - (page 203)

Social Work Certificate  
Substance Abuse Counseling Certificate

**Department of Sociology, Anthropology,  
and Criminology** - (page 203)

**Undergraduate Majors (B.A.)** - (page 203)

Anthropology  
Anthropology-Teaching  
Criminology  
Sociology

**Minors** - (page 204)

Anthropology  
Anthropology-Teaching  
Criminology  
Sociology

**Graduate Majors (M.A.)** - (page 205)

Criminology  
Sociology

**Program Certificates** - (page 205)

Certificate in Criminology  
Certificate in Social Identities, Inequalities, and  
Intersectionalities  
Skills in Social Research Certificate

**Department of Special Education** - (page 205)

**Minors** - (page 206)

Early Childhood Special Education-Teaching  
Severe Disability-Teaching  
Special Education-Teaching  
Instructional Strategist I: Mild/Moderate K-8 Emphasis  
Instructional Strategist I: Mild/Moderate 5-12 Emphasis  
Teacher of Students With Visual Impairments (TVIS)

**Graduate Majors (M.A.E.)** - (page 206)

Special Education  
Teacher of Students With Visual Impairments

**Graduate Major (Ed.D.)** - (page 207)

Doctor of Education: Special Education intensive study area

**Department of Teaching** - (page 208)

The Department of Teaching is responsible for the administration of multi-faceted programs of Price Laboratory School (PLS) and the Office of Student Field Experiences (OSFE).

**Department of Theatre** - (page 209)

**Undergraduate Majors (B.A.)** - (page 209)

Communication-Theatre-Teaching (also listed in Department of Communication Studies)  
Theatre

**Minors** - (page 210)

Communication-Theatre-Teaching (also listed in Department of Communication Studies)  
Theatre

**Department of Accounting**

**(College of Business Administration)**

**[www.cba.uni.edu/accounting](http://www.cba.uni.edu/accounting)**

*M. Wartick, Head. R. Abraham, C. Bauman, M. Bauman, M. Christ, L. Christ, D. Deeds, R. Francis, T. Lindquist, D. Schmidt, G. Smith.*

The Department of Accounting offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Accounting section in the following order:

**Undergraduate Majors (B.A.)**

Accounting

**Minors**

Accounting-Business  
Accounting

**Graduate Majors (MAcc)**

Master of Accounting

**Note:** Students majoring in Accounting must satisfy the College of Business Administration (CBA) admission requirements before they

## Program Requirements

### Accounting

can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Student Advising and Career Services Office in the College of Business Administration or at [www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm](http://www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm). Prior to completion of the admission requirements, students may sign an intent to major in Accounting and be classified as a prospective (pre)major. Pre-Accounting majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Accounting majors *may* declare a double major, and/or major and minor within the College of Business Administration subject to regulations imposed by those CBA departments affected. Accounting majors minoring within the CBA must select minors designated for business majors.

To graduate with a major in Accounting from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. In addition, a minimum of nine graded hours must be earned in 100-level UNI Accounting courses. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020) and six hours of statistics may be counted as outside the College of Business Administration. A student must earn a 2.20 cumulative grade point average at UNI and earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI, and earn a grade of C- or better in 120:130. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

*Students who want to write the Uniform CPA Examination in Iowa should secure current requirements from the Iowa Accountancy Examining Board in order to plan their program of study so that all requirements are met. Students who want to write the Uniform CPA Examination in other states should secure the same information from the applicable state board of accountancy.*

Students may repeat Accounting courses with the exception that subsequent to successfully completing a 100-level Accounting course, they may not repeat Principles of Financial Accounting (120:030) or Principles of Managerial Accounting (120:031).

The Accounting Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Student Advising and Career Services Office (CBB 321B) in the College of Business Administration.

## Bachelor of Arts Degree Programs

### Accounting Major

The Accounting major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours
Finance: 160:151 .....	3 hours
Economics: 920:020*; 920:053; 920:054; 920:070* .....	12 hours

Required:

Accounting: 120:129; 120:130; 120:131; 120:132; 120:134; 120:136 .....	18 hours
	57 hours

While Accounting Majors are not required to take accounting electives, the following electives are offered: 120:135, 120:139, 120:141, 120:142, 120:145. Depending on individual career goals and professional certification requirements, certain electives may be highly recommended in addition to the required courses. Students who wish to be a candidate for the Uniform Certified Public Accountant Examination should follow the requirements of the Iowa Board of Accountancy.

\*In addition to the required 57 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## Minors

### Accounting Minor-Business

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Accounting: 120:129; 120:130 .....	6 hours
Accounting electives from the following: 120:131; 120:132; 120:134; 120:135; 120:136; 120:141; 120:142; 120:145...	6 hours
	12 hours

Available to majors in: Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

### Accounting Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Accounting: 120:030 .....	3 hours
Marketing: 130:101 .....	3 hours
Management: 150:153 .....	3 hours
Electives: at least 9 hours from accounting area .....	9 hours
	18 hours

**NOT** available to majors in Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

**Note:** 130:101 has a prerequisite of either 920:024 or 920:053. 920:024 or both 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.

## Master of Accounting Degree

The Master of Accounting program (MAcc) is offered on the **non-thesis** option. A minimum of 30 semester hours is required for the degree, of which a **minimum of 15 hours must be at the 200-level**. In addition, there can be no more than 12 credit hours of UNI g-level courses included in the program of study and all transfer credit must be at the graduate level (i.e., equivalent to UNI's 200-level courses).

Students desiring entry into this degree program must have: a minimum Graduate Management Admission Test (GMAT) score of 500, a cumulative grade point average (GPA) of B- or better on all **upper division** (junior/senior) accounting courses, and satisfactory completion of Intermediate Accounting I 120:129 and Intermediate Accounting II 120:130. In addition, a minimum admission score of 1150 (computed by multiplying the undergraduate GPA by 200 and adding the GMAT score)

is required. Students may be admitted on a probationary basis if their GMAT score and/or their average grades on **upper division** accounting courses fall below 500 and/or B-, respectively.

International students and/or individuals without English as a first language are required to take the TOEFL® iBT. Applicants must earn a minimum score of 89 on this test to be admitted. If the TOEFL® iBT is not offered in the applicant's country, then the applicant must take the TOEFL® and Test of Spoken English (TSE®). Minimum scores on these tests for admission are 575 (or 230 on the computerized version) on the TOEFL® and 50 on the TSE®.

UNI undergraduate accounting students interested in the MAcc Integrated Program may apply for admission to the program during the semester they are completing Intermediate Accounting II (120:130). An Application for Admission to Graduate Study must be completed and the student's interest in the MAcc Integrated Program must be indicated on the application itself. The GMAT will be waived for UNI undergraduate students applying to the integrated program if they have a GPA of 3.00 or higher after 75 UNI credits and at the end of the semester in which Intermediate II is taken. If accepted into the MAcc Integrated Program, the student will receive both the B.A. and MAcc degrees upon completion of the respective programs of study.

Once admitted into the integrated program, UNI undergraduate accounting students (who are classified as seniors) **may register for a maximum of 12 hours of graduate credit as a senior, with the approval of the department head** (see guidelines on pages 43, 61-62). The student must present a signed Student Request form (with the appropriate signatures), when registering for graduate credit as a senior. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full-time graduate rate for the student's residence classification.** The combined total number of hours, both undergraduate and graduate, may not exceed 15 hours in a semester, or 8 hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree within two years from the time the student took the course and will not be counted toward the undergraduate degree.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Accounting for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

**Required:**

Accounting: 120:214; 120:229 .....	6 hours
Information technology component from the following .....	3 hours
Accounting: 120:236	
Management: 150:249	
Management: 150:201 .....	3 hours
Electives .....	18 hours
Accounting: 120:135; 120:139; 120:145; 120:240; 120:242;	
120:263; 120:269; 120:280; 120:285; 120:289; 120:299.	
Communications:	
Management: 150:114.	
Communications: 48C:134; 48C:141; 48C:151; 48C:153	
International Business:	
Marketing: 130:177.	
Finance: 160:158.	
Economics: 920:117; 920:125; 920:136; 920:148; 920:175.	
Political Science: 942:153; 942:173.	
History: 960:225.	

Any other graduate level non-accounting course  
approved by the MAcc program director.

30 hours

Students will be required to satisfy an Experiential Component with a pre-approved experience. Ways in which this component might be satisfied include enrollment and satisfactory completion of 120:144 or 120:169 or 120:179 or 120:269. Non-academic credit work experience may also satisfy this requirement. Students will be required to prepare a written report summarizing their experience. Supervising faculty will determine whether the experience goals have been satisfied.

## Department of Art

### (College of Humanities and Fine Arts)

**[www.uni.edu/artdept](http://www.uni.edu/artdept)**

*J. Byrd, Head. C. Adelman, R. Behrens, R. Colburn, T. Dooley, E. Duffy, P. Fass, S. Hostetler, M. Frisbee Johnson, J. Petsch, J. Schnabel, T. Stancliffe, C. Streed, A. Wilson.*

The Department of Art offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Art section in the following order:

**Undergraduate Majors (B.F.A.)**

Art: Studio B.F.A.

**Undergraduate Majors (B.A.)**

Art-Studio Emphasis

Art-Art History Emphasis

Art Education-Teaching

**Minors**

Art

Art-Teaching

Art (K-8)-Teaching

**Graduate Majors (M.A.)**

Art

Art Education Emphasis

Art Education With Certification for Licensure Option

Studio Emphasis

Major programs are offered by the Department of Art in two baccalaureate degree areas, the Bachelor of Arts and the Bachelor of Fine Arts. The Bachelor of Arts degree is a liberal arts program that provides the art major with three emphasis options: studio, art history, or art education (teaching). The Bachelor of Fine Arts degree is a professional program with an intensive studio emphasis. The baccalaureate degree programs in the Department of Art are accredited by the National Association of Schools of Art and Design.

No grade of less than C- shall satisfy any art major or minor degree requirement whether taken at UNI or transferred from another institution. For all studio courses in the Department of Art programs the ratio of student work hours to credit hours is 3:1. Therefore, additional work is required outside the regular class meeting times.

Courses in the Department of Art require specialized materials, some of which are provided through art lab fees.

Art courses which fulfill an Art major requirement cannot be used to fulfill Category 3A of the Liberal Arts Core.

## Foundations Program

The Foundations Program is a one-year program required for all art majors and art minors. Introductory courses are offered that will provide an intense exploration of basic art concepts and skills as preparation for

## Program Requirements

### Art

specialized and advanced areas of study.

Art majors take the 18 hours of introductory courses in the first year of study. The Foundations Program is prerequisite to all studio and art history courses. Generally, students enroll in Drawing I, 2-D Concepts, and Survey of Art History I during the first semester and Drawing II, 3-D Concepts, and Survey of Art History II the second semester.

The Foundations Program is a prerequisite for introductory level courses taken only by Art majors and minors.

Required:

Art: 600:018; 600:019; 600:026; 600:027; 600:040;  
600:041 ..... 18 hours

## Bachelor of Fine Arts Degree Program

A B.F.A. portfolio review is required of all students seeking admission to the B.F.A. degree program. Students must apply for admission prior to the completion of 45 semester hours of art. To qualify for the review students must: 1) have a minimum cumulative GPA in Art of 2.75 and 2.50 overall, 2) complete the Foundations Program, 3) have completed or be completing in the semester of application 6 hours of studio distribution, 4) be enrolled in or have completed a second semester in a selected studio area (students electing a drawing emphasis must be enrolled in or have completed a third semester of drawing beyond Drawing II), 5) complete the B.F.A. Admission Application, and 6) submit a portfolio of art work for review. Students may reapply for admission to the B.F.A. program.

### Art Major: Studio B.F.A.

The Art Major: Studio B.F.A. requires a minimum of 130 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 130 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019; 600:026; 600:027;  
600:040; 600:041) ..... 18 hours

Required: studio distribution ..... 12 hours

Group 1: 2-D studio distribution.

Choose two courses from 600:025; 600:032; 600:033 or  
600:034 or 600:035 or 600:036; 600:080.

Group 2: 3-D studio distribution.

Choose two courses from 600:037; 600:050; 600:060;  
600:074.

Required: history of art distribution ..... 9 hours

Required: B.F.A. courses

B.F.A. portfolio admission review

600:192 B.F.A. seminar ..... 2 hours

600:189 B.F.A. exhibition ..... 0 hours

Required: courses in studio concentration

Five courses in studio concentration ..... 15 hours

600:196 B.F.A. Project I (in area of studio concentration) .... 3 hours

600:197 B.F.A. Project II (in area of studio concentration) ... 3 hours

(Studio courses used to fulfill the studio distribution  
courses may not be used for studio concentration)

Studio art electives ..... 15 hours  
77 hours

As a graduation requirement, each B.F.A. candidate must complete a concentration of no less than 21 semester hours in any one of the following studio areas: ceramics, drawing (excluding Drawing I and Drawing II), graphic design, jewelry/metals, painting, performance art, photogra-

phy, printmaking, or sculpture.

The B.F.A. Exhibition (600:189) serves as the exit requirement for this degree program.

## Bachelor of Arts Degree Programs

### Art Major-Studio Emphasis

The B.A. Art-Studio Emphasis major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019, 600:026;

600:027; 600:040; 600:041) ..... 18 hours

Required: studio distribution ..... 6 hours

Group 1: 2-D studio distribution

Choose one course from 600:025, 600:032, 600:033, 600:034,  
600:035, 600:036, or 600:080.

Group 2: 3-D studio distribution

Choose one course from 600:037, 600:050, 600:060, or  
600:074.

Required: art history distribution ..... 6 hours

Required: studio concentration ..... 12 hours

12 hours in any one of the following areas: ceramics,  
drawing (excluding Drawing I and Drawing II), graphic  
design, jewelry/metals, painting, performance art,  
photography, printmaking, or sculpture.

Studio courses used to fulfill the studio distribution  
requirement cannot be used to fulfill requirements  
in the studio concentration.

Studio electives ..... 6 hours  
48 hours

### Art Major-Art History Emphasis

The B.A. Art-Art History Emphasis major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019;

600:026; 600:027; 600:040; 600:041) ..... 18 hours

Required: studio distribution ..... 6 hours

Group 1: 2-D studio distribution

Choose one course from 600:025, 600:032, 600:033,  
600:034, 600:035, 600:036, or 600:080.

Group 2: 3-D studio distribution

Choose one course from 600:037, 600:050, 600:060,  
or 600:074.

Required: art history distribution ..... 6 hours

One course from each of the following groups:

Group 1 - 600:139; 600:140; 600:141-01; 600:141-05;  
600:141-06; 600:155.

Group 2 - 600:141-02; 600:142; 600:144; 600:146;  
600:151; 600:152.

Required: art history in non-Western cultures ..... 3 hours

One course from the following: 600:139; 600:140;  
600:141-04; 600:141-07; 600:147.

Required: 600:138 ..... 2 hours

Required: art history concentration.....9 hours  
At least three courses from the aforementioned art history Group 1 or Group 2.  
Art history courses used to fulfill the art history distribution requirement cannot be used to fulfill requirements in the art history concentration.  
Art history electives .....6 hours  
A minimum of two courses from the above listing of art history courses and/or 600:153 or 600:191.

50 hours

Students electing an emphasis in Art History must also fulfill a foreign language requirement of 13-18 hours, or demonstrate competency through the first of the composition courses in the chosen language. French or German is recommended.

## Art Education Major-Teaching

The Art Education-Teaching major requires a minimum of 127 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, to complete the minimum of 127 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019; 600:026; 600:027; 600:040; 600:041).....18 hours  
Required: studio distribution.....12 hours  
Group 1: 2-D studio distribution  
Choose two courses from 600:025; 600:032; 600:033 or 600:034 or 600:035 or 600:036; 600:080.  
Group 2: 3-D studio distribution  
Choose two courses from 600:037, 600:050, 600:060, 600:074.

Required: art history distribution.....6 hours  
Required: professional methods courses\* (600:091; 600:092; 600:119; 600:121) .....10 hours  
Art emphasis ..... 6 hours  
52 hours

Art Education majors must choose an Art Emphasis. Either a **Studio Emphasis** of 9 hours (one studio distribution course plus two more courses) in one of these areas: ceramics, drawing (excluding Drawing I), graphic design, jewelry/metals, painting, performance art, photography, printmaking, or sculpture; **OR** an **Art History Emphasis** of 12 hours (two upper-level Art History courses in addition to the 6-credit *Art History* Distribution).

\*Completion of these courses will satisfy 240:020 of the Professional Education Requirements.

## Minors

### Art Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019; 600:026; 600:027; 600:040; 600:041).....18 hours  
Art Studio or Art History elective..... 3 hours  
21 hours

### Art Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019; 600:026; 600:027; 600:040; 600:041).....18 hours  
Required: Studio electives.....6 hours  
Required: Art Education (elementary and secondary)  
Elementary Art Education: 600:091 and 600:092 .....5 hours  
Secondary Art Education: 600:119 and 600:121 ..... 5 hours  
34 hours

### Art Minor (K-8)-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required: Foundations Program (600:018; 600:019; 600:026; 600:027; 600:040; 600:041) and 600:091; 600:092 .....23 hours  
Elective in art: may include 600:002 or 600:004..... 6 hours  
29 hours

## Master of Arts Degree Programs

### Major in Art

This major has a written or creative **thesis** option. Each student, regardless of emphasis, must complete a **minimum of 30 semester hours**. **A minimum of 15 semester hours of 200-level course work is required for the thesis options.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Individualized programs of study are carefully planned and approved in consultation with a graduate advisor. All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements.

Two emphases are offered: **Art Education** and **Studio**.

Qualified applicants are admitted by the Graduate Faculty Admission Committee following selective review of all prior academic and creative achievement. A review of the applicant's undergraduate course work and portfolio is the basis for admission to the graduate program. The Chair of Graduate Studies in the Department of Art should be contacted for specific information regarding the preparation of the applicant's portfolio.

As a general rule, students who have received an undergraduate degree in art will be admitted to the program without additional course requirements. Additional course work may be required of those applicants who meet all other admission criteria but did not complete an undergraduate degree in art. Credit for additional work may not apply toward the degree program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Art for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

### Art Education Emphasis

Students whose emphasis is Art Education may elect the written or creative thesis option in their individualized area of exploration. Students will complete a written or creative thesis in their individualized area of exploration. The thesis may have theoretical and/or applied emphasis and will result in, for example, a written, visual and/or audio presentation or exhibition. Formal documentation of the thesis will be submitted to

## Program Requirements

### Art/Biology

the Dean of the Graduate College.

All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements. Required: minimum of 30 semester hours of credit with at least a 3.00 GPA while completing the following requirements:

Art:

Graduate level art history.....	6 hours
600:295 (may be repeated for maximum of 9 hours) .....	6-9 hours
600:280 (must be taken twice).....	4 hours
600:299 thesis or special project. ....	6 hours
Elective graduate courses with consent of advisor (those seeking teacher licensure should take 600:275 and 600:297) .....	5-8 hours
	30 hours

## Art Education With Certification for Licensure Option

Students electing to pursue teaching certification for licensure to teach art in grades K-12 need to complete the following College of Education Professional Sequence required for certification in addition to M.A. Art Education course work. This program is subject to revision due to state licensure requirements and changes in the Teacher Education Program.

### Level I

200:017 Field Experience: Exploring Teaching.....	1 hour
200:030 Dynamics of Human Development.....	3 hours
220:150 Meeting the Needs of Diverse Learners in Classrooms.....	2 hours

### Level II

(Before enrolling in Level II, the student must be fully admitted to the Teacher Education Program.)

200:128 Field Experience: Teacher as a Change Agent .....	1 hour
200:148 Learning and Instruction in Classroom Contexts.....	3 hours
250:150 Classroom Evaluation Instruments .....	2 hours

### Level III

260:119 Schools and American Society .....	3 hours
280:170 Human Relations .....	3 hours
280:140 Student Teaching.....	12 hours
	30 hours

## Studio Emphasis

Students may elect specialization in any one of the following studio areas: ceramics, drawing, graphic design, jewelry/metals, photography, painting, printmaking, or sculpture. The degree program is flexible to allow maximum focus upon a specific studio area and/or supportive studio work in several or combined areas.

The creative thesis is required for students pursuing the Studio emphasis. It requires the public presentation of a formal exhibition, performance or project including an announcement, together with a formal documentation of that presentation for submission to the Dean of the Graduate College.

Guidelines, procedures and requirements for each emphasis and program option are available from the Department of Art.

All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements.

Required:

Art: 600:280.....	4 hours
Graduate level art history.....	6 hours

Graduate Studio: 600:275.....	14 hours
Research: 600:299 (Studio thesis) .....	6 hours
	30 hours

## Department of Biology

### (College of Natural Sciences)

**www.bio.uni.edu**

*D. Saunders, Head. T. Abebe, P. Berendzen, V. Berg, B. Bergquist, D. Brecheisen, E. Brown, M. Clayton, J. Demastes, K. Dhanwada, J. Gerrath, L. Jackson, J. Jurgenson, C. Lee, D. McClenahan, M. McDade, M. Myers, S. O'Kane, W. Olson, J. Ophus, K. Pontasch, O. Schwartz, R. Seager, A. Schwegendiek, M. Sliwinski, D. Smith, T. Spradling, J. Tamplin, C. Thurman, M. Walter, J. Weld, D. Wiens.*

The Department of Biology offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Biology section in the following order:

### Undergraduate Majors (B.S.)

Biology

### Undergraduate Majors (B.A.)

Biology

Biology: Biomedical Emphasis

Biology: Ecology and Systematics Emphasis

Biology: Microbiology Emphasis

Biology: Plant Bioscience Emphasis

Biology-Teaching

Biotechnology

Combined B.A./M.S. or B.S./M.S. Program Biology

### Minors

Biology

Biology-Teaching

Natural History Interpretation

### Graduate Majors (M.A.)

Biology

### Graduate Majors (M.S.)

Biology

### Graduate Majors (P.S.M.)

Biotechnology

Ecosystem Management

Major programs are offered by the Department of Biology in two baccalaureate areas: the Bachelor of Arts and the Bachelor of Science. The Bachelor of Science degree is recommended for most students preparing for graduate study in biology. The Bachelor of Arts degree provides a choice among several tracks depending upon student interest and/or career plans.

**Note:** Students should submit their declaration of a biology major early in their college programs. This will permit them to plan their major courses with a department advisor to avoid future conflicts. Transfer students with previous courses in biology, zoology, or botany must have transfer courses evaluated to avoid duplication and possible loss of credit. Decisions regarding UNI major courses and transfer credits should be approved by the department head or advisor.

## Academic Standard Policy

### Majors

1. Students should indicate their interest in majoring in biology by filling out a Declaration of Curriculum form any time after their



- admission to UNI.
2. A student's freshman year shall be devoted primarily to completing the required course work in general biology (840:051 and 840:052) and chemistry (860:044 and 860:048, or 860:070). Liberal Arts Core and/or math classes should be taken by students to complete their schedules.
  3. Students must receive a grade of C- (1.67) or higher in courses that are applied to their major.
  4. Students with ACT mathematics scores below 24 are required to complete either Elementary Analysis (800:046) or Mathematics for the Biological Sciences (800:056) with a grade of C- (1.67) or higher before they can graduate with a biology major.
  5. If a student drops a course after the first seven days of classes, in the subsequent semester they will only be allowed to register for that course after all advanced registration is completed.
  6. To graduate from UNI with a biology major, students must have both a cumulative and a major UNI GPA of 2.50 or higher, with a grade of C- (1.67) or higher in all courses that are applied to the major.
  7. Transfer students entering UNI shall be subject to the acceptance requirements listed in #3.

## Minors

To graduate from UNI with a biology minor, students must have both a cumulative and a minor UNI GPA of 2.50 or higher, with a grade of C- (1.67) or higher in all courses that are applied to the minor.

## Bachelor of Science Degree Program

### Biology Major

The B.S. Biology major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Bachelor of Science Biology major is designed to prepare students for careers in areas which require a higher degree of concentration in subject matter and cognate areas, particularly advanced-level courses. This degree is especially appropriate for students planning graduate study. In order to ensure graduation within eight semesters, students should work with advisors early in their programs, as advanced planning for sequenced courses is very important.

#### Required:\*

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Biology: 840:157; 840:190 (2-3 hrs.) .....	5-6 hours
Cognate courses:	
Mathematics: 800:060.....	4 hours
Chemistry and Biochemistry: 860:044 and 860:048***; 860:120; 860:121; 860:123 .....	16 hours
Physics: 880:054; 880:056.....	8 hours
Electives in biology#: (100-level or above, excluding 840:101) or 800:061 or 860:154.....	19-20 hours
	68 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044

and 860:048.

#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

### Emphasis-Honors Research

Students invited to do Honors Research will complete 4 credit hours of 840:190 (Undergraduate Research) and 1 credit hour of 840:191 (Senior Thesis). These hours may be applied to the elective hours of the major.

## Bachelor of Arts Degree Programs

### Emphasis-Honors Research

Students invited to do Honors Research will complete 4 credit hours of 840:190 (Undergraduate Research) and 1 credit hour of 840:191 (Senior Thesis). These hours may be applied to the elective hours of the major.

### Biology Major

The B.A. Biology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major provides a broad training in biology but allows different specializations through choice of electives. Students who select this major to prepare themselves for graduate study in the biological sciences should consult with their advisor for elective courses.

#### Required:\*

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Cognate courses:	
Mathematics: 800:046 or 800:060 or 800:044 and 800:056 .....	4-5 hours
Chemistry and Biochemistry: 860:044 and 860:048***; 860:120 and 860:121 or 860:063 .....	12-13 hours
Earth Science: 870:031; 870:035 or Physics: 880:054; 880:056 .....	8 hours
Electives in biology#: (100-level or above, excluding 840:101) or 860:123 or 860:154.....	17-19 hours
	58 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

### Biology Major: Biomedical Emphasis

The B.A. Biology Major: Biomedical Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major offers basic preparation to students for allopathic, osteopathic, chiropractic, pharmacy, physical therapy, dental, veterinary, optometric, podiatric and other health-related programs. In addition,

## Program Requirements

### Biology

it prepares students for graduate study in biomedical sciences, e.g., pharmacology, toxicology, pathology, physiology, cellular biology, and related areas. Students should seek advice and information early in their programs so that individual goals and specific additional requirements of some graduate and professional programs can be considered in curricular planning.

#### Required:\*

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Anatomy group: select one option from following	
list - 840:106; 840:146##; 840:172 .....	4 hours
Physiology group: select one option from following	
list - 840:114 and 840:115; 840:122; 840:137	
and 840:138 .....	4 hours
Cellular group: select one option from following	
list - 840:128; 840:146##; 840:150 .....	4 hours
Cognate courses:	
Mathematics: 800:046 or 800:060 or 800:044	
and 800:056 .....	4-5 hours
Chemistry and Biochemistry: 860:044 and	
860:048***; 860:120; 860:121; 860:123 .....	16 hours
Physics: 880:054; 880:056 .....	8 hours
Electives selected from the following (consult with advisor):....	2-3 hours
Biology: 840:102; 840:106; 840:114 and 840:115;	
840:119; 840:122; 840:128; 840:131; 840:137	
and 840:138; 840:142 or 840:148; 840:144;	
840:146; 840:147; 840:150; 840:151; 840:152;	
840:153; 840:157; 840:160; 840:164; 840:168;	
840:170; 840:172; 840:190.	
Chemistry and Biochemistry: 860:154.	
	58 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

## 840:146 cannot satisfy both requirements.

### Biology Major: Ecology and Systematics Emphasis

The B.A. Biology Major: Ecology and Systematics Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This emphasis provides training to students interested in organismal and/or ecological biology. With the guidance of a faculty advisor, students who wish to specialize further may follow one of four separate tracks: Ecology, Applied Ecology, Botany, or Zoology. This emphasis is appropriate for students interested in a career with private and governmental organizations conducting endangered species recovery, ecological restoration, biological surveys, toxicity evaluations, environmental impact analyses, field research, museum or herbarium curation, or who wish to work in zoos, nature centers, museums, or botanical gardens. This emphasis also provides suitable background for students wishing to pursue graduate degrees in ecology, animal behavior, systematics, conservation biology, environmental toxicology, population biology, and evolutionary biology. Field courses offered during the summer program at Iowa Lakeside Laboratory may be accepted for biology elective credit.

#### Required:\*

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Cognate courses:	
Mathematics: 800:046 or 800:060 or	
800:044 and 800:056 .....	4-5 hours
Chemistry and Biochemistry: 860:044 and 860:048***;	
860:063 or both 860:120 and 860:121 .....	12-13 hours
Physical Science: 870:031 or 880:054 .....	4 hours
Electives: select from the following (consult with advisor)....	21-23 hours
Biology#: 840:103; 840:106; 840:112; 840:114 and	
840:115; 840:120; 840:122; 840:131; 840:137	
and 840:138; 840:142; 840:143; 840:146; 840:154;	
840:155; 840:157; 840:160; 840:164; 840:166;	
840:167; 840:168; 840:170; 840:172; 840:174;	
840:178; 840:179; 840:180; 840:185; 840:190; 840:198.	
Earth Science: 870:125 or	
Geography: 970:164.	
	58 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

### Biology Major: Microbiology Emphasis

The B.A. Biology Major: Microbiology Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This emphasis provides a broad overview of microbiology, including virology, microbial genetics, and general microbiology. It is excellent preparation for careers in microbiology in the health sciences or industry and for graduate training in microbiology and related fields.

#### Required:\*

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Biology: 840:144; 840:151; 840:152 .....	12 hours
Cognate courses:	
Mathematics: 800:046 or 800:060 or 800:044	
and 800:056 .....	4-5 hours
Chemistry and Biochemistry: 860:044 and	
860:048***; 860:063, or 860:120 and 860:121	
and 860:123**** .....	12-16 hours
Physics: 880:054 .....	4 hours
Electives: selected from the following	
(consult with advisor) .....	6-11 hours
Biology#: 840:128; 840:147; 840:149; 840:150; 840:190.	
Chemistry and Biochemistry: 860:154.	
Physics: 880:056.	
	58 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044

and 860:048.

\*\*\*\*Students seeking more depth and considering post-baccalaureate studies are advised to take the 860:120, 860:121, and 860:123 option.

#Not more than four (4) semester hours of credit from 840:190 will be accepted for biology elective credit.

## **Biology Major: Plant Bioscience Emphasis**

The B.A. Biology Major: Plant Bioscience Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This emphasis provides training to students interested in plant bioscience. From the cell to the organismal level, students will be trained in traditional and molecular principles and techniques of plant anatomy, physiology and cell biology. This emphasis is appropriate for students interested in crop and timber improvement, nutritional enhancement, pharmaceutical production, horticulture, genetic engineering, and plant-based biotechnology which contributes to a wide array of industrial and research applications. Employment opportunities are in agricultural research, food production, and in the pharmaceutical and manufacturing sectors. This emphasis also provides a strong background for students wishing to pursue graduate degrees in the plant biosciences, plant physiology, plant biotechnology, plant genetics, plant pathology and protection, plant developmental biology and others.

Required:

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Biology: 840:121; 840:122; 840:172; 840:120 or 840:166.....	16 hours
Cognate courses:	
Mathematics: 800:046 or 800:060 or 800:044	
and 800:056 .....	4-5 hours
Chemistry and Biochemistry: 860:044; 860:048***;	
860:120; 860:123.....	14 hours
Physics: 880:054 .....	4 hours
Electives selected from the following.....	4-5 hours
Biology: 840:103; 840:120; 840:128; 840:142; 840:144;	
840:151; 840:152; 840:153; 840:157; 840:166;	
840:168; 840:170; 840:171.	
Chemistry and Biochemistry: 860:154.	
	58 hours

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

## **Biology Major-Teaching (Extended Program)**

The B.A. Biology-Teaching major requires a minimum of 131 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 131 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Biology Teaching major provides a broad education in biology. Along with professional education courses and student teaching, this curriculum is a sound preparation for teaching life science, biology, and other secondary science courses. This is an extended program requiring at least nine semesters; therefore, students should contact their advisors

early in their program. This program is an excellent preparation for graduate work in biology or science education.

Required\*:

Introductory track: 840:051; 840:052; 840:100**;	840:140** .....	15 hours
Evolutionary Biology: 840:142.....		3 hours
Plant group: select one option from following list -		
840:120; 840:122; 840:166; 840:172.....		4 hours
Animal group: select one option from following list -		
840:106; 840:114 and 840:115***; 840:146;		
840:160; 840:164.....		4 hours
Cellular group: select one option from following list -		
840:128; 840:151; 840:152.....		4 hours
Cognate courses:		
Chemistry and Biochemistry: 860:044; 860:048****;		
860:063.....		12 hours
Earth Science: 870:035.....		4 hours
Physics: 880:054.....		4 hours
Methods:		
Science and Science Education: 820:190; 820:196.....		5 hours
Biology: 840:193; 840:197 .....		4 hours
Electives in biology#: (100-level or above,		
excluding 840:101).....		4 hours
		63 hours

\*At least 7-8 hours of biology credit must be 100g-level.

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students who take 840:101 and 840:102 may substitute four hours of this credit for 840:114 and 840:115; if so, neither 840:101 nor 840:102 can count as biology elective credit.

\*\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology or chemistry electives for 860:044 and 860:048.

#Not more than four (4) semester hours of credit from 870:179, 840:185, 840:190, and 840:198 will be accepted for biology elective credit.

## **Biotechnology Major**

The B.A. Biotechnology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major is designed to provide educational training for employment in modern biotechnology fields in both the public and private sectors or for graduate school. Basic skills in recombinant DNA, genetics, microbiology, and biochemistry are emphasized.

Required:

Introductory track: 840:051; 840:052; 840:100**;	
840:140** .....	15 hours
Biology: 840:119; 840:153; two of the following -	
840:121; 840:128; 840:152.....	15 hours
Cognate courses:	
Chemistry and Biochemistry: 860:044 and 860:048***;	
860:063, or 860:120 and 860:123	
and 860:154**** .....	12-18 hours
Electives: selected from the following list	
(approved by advisor) .....	12-18 hours
Computer Science: 810:165.	
Biology#: 840:114 and 840:115; 840:121; 840:122;	
840:127; 840:128; 840:129; 840:137 and	
840:138; 840:144; 840:146; 840:150;	

## Program Requirements

### Biology

840:151; 840:152; 840:190.  
Chemistry and Biochemistry: 860:121; 860:132;  
860:155; 860:156.  
Physics: 880:054; 880:056.

60 hours

\*\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

\*\*\*\*Students seeking more depth and considering post-baccalaureate studies are advised to take the 860:120, 860:123, and 860:154 option.

#Not more than four (4) semester hours of credit from 840:190 will be accepted for biology elective credit.

## Combined B.A./M.S. or B.S./M.S. Program

### Biology

The B.A./M.S. or B.S./M.S. degree program is a five-year program offered on the **thesis** option only, leading to both the B.A./B.S. and M.S. degrees in biology. This program prepares students for doctoral graduate studies in biology and it provides training for work as a biologist in academic, industrial, and government laboratories. Students interested in this program can declare their intent by the end of the junior year, provided they have an overall grade point average (GPA) of 3.00 or above. An Application for Admission to Graduate Study should be completed and the student's interest in the Combined B.A./M.S. or B.S./M.S. Program in Biology indicated on the application itself. Application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Once admitted to the program, undergraduate students (who are classified as seniors), may register for **graduate credit as a senior, with the approval of the department head** (see guidelines on pages 43, 61-62). The student presents a signed Student Request form (with appropriate signatures), when registering for graduate credit as a senior. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester or 8 hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the course work is taken. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

Refer to the M.S. Biology Major on page 95 for program requirements.

## Minors

### Biology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Introductory track: 840:051; 840:052 .....8 hours  
Chemistry and Biochemistry: 860:044 and 860:048\* .....8 hours  
Electives in biology: (100-level, excluding 840:101,  
840:179, 840:185, 840:190, and 840:198)..... 10-12 hours  
26-28 hours

\*Students with excellent preparation in chemistry may substitute

860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

## Biology Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Biology Minor-Teaching provides for second endorsement approval by the Iowa Board of Educational Examiners and requires first endorsement approval (major) in another science discipline or general science.

Required:

Introductory track: 840:051; 840:052; 840:100\*; 840:140\* ...15 hours  
Chemistry and Biochemistry: 860:044 and 860:048\*\* .....8 hours  
Methods:

Science and Science Education: 820:190; 820:196.....5 hours  
Biology: 840:193 .....3 hours  
31 hours

\*840:100 and 840:140 are not required as prerequisites for 100-level courses.

\*\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

## Natural History Interpretation Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Natural History Interpretation minor provides students with interpretive techniques and opportunities to gain practical experience with interpretation and environmental education program development. This minor, taken with the Biology Major: Ecology and Systematics Emphasis or the Earth Science Major: Interpretive Naturalist Emphasis, comprises the Natural History Interpretation program. This program prepares students for employment as interpreters with park systems, nature centers, zoos, museums, planetariums, and other areas requiring natural history communication skills.

Required:

Leisure, Youth and Human Services: 430:050 or  
430:146 or 430:170 .....3 hours  
Biology: 840:084; 840:184; 840:196 .....8 hours  
Biology: 840:195  
OR  
Earth Science: 870:195..... 4-6 hours  
Biology: 840:180\*  
OR  
Anthropology: 990:125..... 3-4 hours  
18-20 hours

\*If 840:180 is taken to satisfy a requirement of the Natural History Interpretation Minor, it cannot also be used for credit on the Biology Major: Ecology and Systematics Emphasis.

## Master of Arts Degree Program

### Major in Biology

Students interested in enrolling in the program must complete an application and be admitted to the program. Applications should include three recommendations and transcripts of undergraduate and graduate credits. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required

for admission to the program.

Successful completion of a final written comprehensive examination is required.

This major is available on the **non-thesis** option only. A **minimum of 36 semester hours** is required, including a 3-credit-hour research paper. **A minimum of 15 semester hours of 200-level course work is required.** This program is flexible and designed to allow students, working with their advisory committee, to tailor a program to fit student interests and aspirations in biology.

Required:

200-level courses.....	9 hours
1 course in at least 3 of the 4 content areas (prerequisites vary)	
Biology: 840:202 .....	4 hours
Biology: 840:292 .....	1 hour
Research: 840:299 .....	3 hours
Electives: (100g or above).....	19 hours
	<b>36 hours</b>

Content areas:

- I. 840:240 Advanced Cellular and Molecular Biology
- II. 840:250 Advanced Physiology and Development
- III. 840:260 Advanced Ecology
- IV. 840:270 Advanced Systematics and Evolutionary Biology

## Master of Science Degree Program

### Major in Biology

This major is available for students seeking an extensive research experience. Students interested in enrolling in the program must complete an application and be admitted to the program. Applications should include three recommendations and transcripts of undergraduate and graduate credits. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

This major is available on the **thesis** option only. A **minimum of 32 semester hours** is required, including a minimum of 21 hours of course work and a minimum of 9 hours of thesis research. **A minimum of 18 hours of 200-level course work is required for the thesis option.**

Students are required to pass an oral comprehensive examination in defense of their final thesis.

This program is flexible and designed to allow students, working with their advisory committee, to tailor a program to fit student interests and aspirations in biology.

Required:

200-level courses (take one course in at least two of the content areas listed below - prerequisites vary) .....	6 hours
Biology: 840:202 .....	4 hours
Biology: 840:292 .....	1 hour
Research: 840:299 .....	9 hours
Electives: 100g or above (excluding 840:299) .....	12 hours
	<b>32 hours</b>

Content areas:

- I. 840:240 Advanced Cellular and Molecular Biology
- II. 840:250 Advanced Physiology and Development
- III. 840:260 Advanced Ecology
- IV. 840:270 Advanced Systematics and Evolutionary Biology

## Professional Science Master's Degree Programs

### Major in Biotechnology

This P.S.M. degree prepares students for career opportunities in biotechnology-related businesses and industries. Emphasis is placed on combining molecular and genetic engineering skills with an understanding of business and includes an internship experience. Admission is restricted to students with a GPA of 3.00 or higher and a B.A. or B.S. in Biotechnology, Biology, Biochemistry or a related discipline. Students must have taken an Introductory General Biology sequence, Genetics and one or more courses in Molecular Biology or equivalents to be considered.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Biology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

This major is available on the **non-thesis** option only. A **minimum of 30 semester hours** is required. **A minimum of 18 semester hours of 200-level course work is required.**

Successful completion of an oral comprehensive examination is required.

Required:

Biology: 840:240; 840:280 .....	6 hours
Science and Science Education:	
820:209; 820:215 .....	6 hours
820:289 Seminar .....	2 hours
820:295 Internship .....	4-6 hours
Electives* .....	10-12 hours
	<b>30 hours</b>

\*Students having completed at least two courses in the First Tier or their equivalent, may select electives from the Second Tier.

First Tier

Biology: 840:121; 840:127; 840:129; 840:153.

Chemistry and Biochemistry: 860:154.

Second Tier

Biology: 840:128; 840:146; 840:150; 840:157.

Chemistry and Biochemistry: 860:155; 860:156.

### Major in Ecosystem Management

This P.S.M. degree prepares students for career opportunities in conservation and restoration-related businesses, industries, and government agencies. Emphasis is placed on blending ecosystem analysis, management and restoration skills with an understanding of business and other organizational environments, and includes an internship experience. Admission is restricted to students with a GPA of 3.00 or higher and a B.A. or B.S. in Biology, Ecology or related field. Majors in Agriculture, Geography and other related applied disciplines must take or have taken an introductory biology sequence to be considered. To be admitted students must also have had an upper level course with significant plant taxonomy or systematics content, and an upper level Ecology course.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Biology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

## Program Requirements

### Biology/Chemistry and Biochemistry

This major is available on the **non-thesis** option only. A **minimum of 30 semester hours** is required. **A minimum of 18 semester hours of 200-level course work is required.**

Successful completion of an oral comprehensive examination is required.

Required:

Biology: 840:180; 840:260; 840:280 .....	10 hours
Science and Science Education:	
820:209; 820:215 .....	6 hours
820:289 Seminar .....	2 hours
820:295 Internship .....	4 hours

Electives\* ..... 8 hours  
30 hours

\*Students having completed at least one course in the First Tier or their equivalent, may select electives from the Second Tier.

First Tier

Biology: 840:105; 840:154; 840:167; 840:178; 840:157 or  
Mathematics: 800:121.

Second Tier

Biology: 840:131; 840:155; 840:162; 840:164; 840:166.  
Earth Science: 870:141.  
Economics: 920:123.  
Geography: 970:126; 970:129; 970:163; 970:165; 970:168; 970:174;  
970:175.

## Department of Chemistry and Biochemistry

### (College of Natural Sciences)

[www.chem.uni.edu/](http://www.chem.uni.edu/)

W. Harwood, Head. D. Bartak, J. Bumpus, R. Chin, S. Coon, D. Del Carlo, J. Elbert, M. Elioff, N. Goonesekere, C. Hanson, K. Manfredi, P. Rider, I. Simet, N. Simet, W. Stigliani, L. Strauss.

The Department of Chemistry and Biochemistry offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Chemistry and Biochemistry section in the following order:

#### Undergraduate Majors (B.S.)

Biochemistry  
Chemistry  
Environmental Chemistry Emphasis

#### Undergraduate Majors (B.A.)

Biochemistry  
Chemistry  
Combined B.A./M.S. Program Chemistry  
Chemistry-Teaching  
Chemistry-Marketing

#### Minors

Chemistry  
Chemistry-Teaching

#### Graduate Majors (M.A.)

Chemistry

#### Graduate Majors (M.S.)

Chemistry

#### Graduate Majors (P.S.M.)

Applied Chemistry and Biochemistry

Major programs are offered by the Department of Chemistry and Biochemistry in two baccalaureate degree areas: the Bachelor of Science

and the Bachelor of Arts, and three master's degree areas: Master of Arts, Master of Science, and Professional Science Master's.

Students considering a baccalaureate chemistry major should complete two semesters of general chemistry, 860:044 and 860:048, in the freshman year. Well-prepared students may be permitted to take 860:070, an accelerated course in general chemistry, during their first semester. It is strongly recommended that chemistry majors complete requirements in mathematics and physics within the first two years.

## Bachelor of Science Degree Programs

### Biochemistry Major

The B.S. Biochemistry major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Bachelor of Science Biochemistry major is accredited by the American Chemical Society. This major prepares students for careers and/or advanced study in biochemistry. It also provides partial preparation appropriate for medical school and other health-related programs.

Required:

Mathematics: 800:060; 800:061 .....	8 hours
Biology: 840:051; 840:052 .....	8 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:110; 860:120; 860:121; 860:123; 860:132; 860:137; 860:140; 860:141; 860:143 (2 hrs.); 860:154; 860:155; 860:156; 860:180 (2 hrs.) .....	43-46 hours

Physics: 880:054; 880:056 ..... 8 hours

Additional advanced study: 3 hours in a 100-level

biology course ..... 3 hours

70-73 hours

### Chemistry Major

The B.S. Chemistry major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Bachelor of Science Chemistry major is accredited by the American Chemical Society. This program is recommended for students who wish to prepare for careers as professional chemists. It also provides the most complete preparation for post-graduate study in the field of chemistry.

Required:

Mathematics: 800:060; 800:061 .....	8 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:110; 860:120; 860:121; 860:123; 860:132; 860:137; 860:140; 860:141; 860:143 (2 hrs.); 860:145; 860:149; 860:154; 860:180 (2 hrs.) .....	44-47 hours

Physics: 880:130 and 880:131; or 880:054 and 880:056  
and one 100-level cognate elective of at least

3 hours ..... 8-11 hours

Elective: a chemistry lecture course carrying a physical

chemistry prerequisites ..... 3 hours

63-69 hours

**Notes:**

1. To satisfy American Chemical Society guidelines for certification of the Chemistry major, the two hours of 860:180 Undergraduate Research required for this program must be taken after completion of either 860:140 Physical Chemistry: Thermodynamics or 860:141 Physical Chemistry: Kinetics, Quantum Mechanics, and Spectroscopy. In addition, completion of a final written report is required.
2. The elective course should be chosen with the help of the major advisor to assure consistency on these certification guidelines of the American Chemical Society; an appropriate advanced course in another science may be substituted with department head approval.

Students wishing to earn a non-certified Bachelor of Science degree may omit 860:145, 860:149, and 860:154, but must include 3 additional elective hours in chemistry at the 100-level or higher.

### Emphasis—Environmental Chemistry

The B.S. Environmental Chemistry emphasis requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This emphasis prepares students for careers in the area of environmental chemistry. This degree is also appropriate for students planning graduate work in multidisciplinary fields including environmental science.

**Required:**

Mathematics: 800:060; 800:061 .....	8 hours
Chemistry and Biochemistry: 860:044 and 860:048 or 860:070; 860:120; 860:121; 860:123; 860:132; 860:137; 860:138; 860:140; 860:141; 860:143 (2 hrs.); 860:180 (2 hrs.) .....	34-37 hours
Physics: 880:054; 880:056 .....	8 hours
Environmental Science core: 840:051; 840:052; 870:031; and one of the following: 840:151; 840:168; 870:171; 920:123 .....	15-16 hours
Economics: 920:024* .....	3 hours
	68-72 hours

\*Students may substitute both 920:053 and 920:054 for 920:024 if 920:123 is selected. Taking either 920:024 or **both** 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.

### Emphasis—Honors Research

This emphasis is available to qualified students pursuing the Bachelor of Science program by invitation at the beginning of their junior year. Completion of Honors Research requires 5 credit hours in 860:180 Undergraduate Research (at least 2 hours of which must be taken after completion of 860:140 Physical Chemistry: Thermodynamics or 860:141 Physical Chemistry: Kinetics, Quantum Mechanics, and Spectroscopy) and the writing of a senior research thesis. The research credit may be applied to the elective hours of the B.S. degree.

## Bachelor of Arts Degree Programs

### Biochemistry Major

The B.A. Biochemistry major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program provides experience in most basic areas of chemistry, with a focus on biochemistry. With appropriate choice of university electives, the B.A. Biochemistry major meets the needs of pre-medical students and students preparing for additional study in related areas such as pharmacology, medicinal chemistry, clinical chemistry, and toxicology. It is also suitable for students who wish to combine a chemistry major with a major in another discipline.

**Required:**

Mathematics: 800:060 .....	4 hours
Biology: 840:051; 840:052; 840:140 .....	12 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:110 or 860:132; 860:120; 860:121; 860:123; 860:142*; 860:154; 860:155; 860:156 .....	28-31 hours
Physics: 880:054; 880:056 .....	8 hours
	52-55 hours

\*Students with better preparation in mathematics (800:060 and 800:061) may elect 860:140 and 860:141 to fulfill the physical chemistry portion of this program.

### Chemistry Major

The B.A. Chemistry major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program provides experience in all basic areas of chemistry. With appropriate choice of university electives, the B.A. Chemistry major meets the needs of pre-medical students and students preparing for additional study in related areas such as biochemistry, industrial hygiene, pharmacology and medicinal chemistry, clinical chemistry, and toxicology. It is also suitable for students who wish to combine a chemistry major with a major in another discipline.

**Required:**

Mathematics: 800:060; 800:061 .....	8 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:110; 860:120; 860:121; 860:123; 860:132; 860:137; 860:140; 860:141 .....	31-34 hours
Physics: 880:054 and 880:056; or 880:130 and 880:131 .....	8 hours
	47-50 hours

### Combined B.A./M.S. Program Chemistry

The B.A./M.S. degree program is a five-year program offered on the **thesis** option only, leading to both the B.A. and M.S. degrees in chemistry. This program prepares students for doctoral graduate studies in chemistry and it provides training for work as a chemist in industrial and government laboratories. Students interested in this program can declare their intent by the end of the junior year, provided they have completed 860:141 and have an overall grade point average (GPA) of 3.00 or above. An Application for Admission to Graduate Study should be

## Program Requirements

### Chemistry and Biochemistry

completed and the student's interest in the Combined B.A./M.S. Program in Chemistry indicated on the application itself. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Once admitted to the program, undergraduate students (who are classified as seniors) may register for **graduate credit as a senior, with the approval of the department head** (see guidelines on pages 43, 61-62). The student presents a signed Student Request form (with appropriate signatures) when registering for graduate credit as a senior. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester or 8 hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree within one year from the time the student took the course and will not be counted toward the undergraduate degree. Students must meet the admission requirements of the Graduate College and the Department of Chemistry and Biochemistry upon transition from undergraduate to graduate status at the end of the senior year. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

Refer to the M.S. Chemistry major on page 99 for program requirements.

### Chemistry Major–Teaching

The B.A. Chemistry–Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program provides preparation for chemistry teachers.

Required:

Mathematics: 800:060.....	4 hours
Chemistry and Biochemistry: 860:044 and 860:048; 860:063; 860:110; 860:132; 860:140 or 860:141 or 860:142 .....	23 hours
Physics: 880:054 and 880:056; or 880:130 and 880:131 .....	8 hours
Methods: Science and Science Education: 820:190; 820:193; 820:196.....	8 hours
Electives in chemistry and biochemistry.....	1 hour
	44 hours

#### Notes:

1. Well-prepared students may substitute 860:070 for 860:044 and 860:048; these students must also substitute 860:120 and 860:121 and 860:123 for 860:063 and the one-hour elective.
2. Students who complete both 860:140 and 860:141 may count the latter course toward their elective hour total.

### Chemistry–Marketing Major

The B.A. Chemistry–Marketing major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program provides preparation for students interested in the

sales and marketing aspects of the chemical industry.

Required:

Accounting: 120:030; 120:031 .....	6 hours
Marketing*: 130:101; 130:106; 130:153; 130:161 or 130:178 .....	12 hours
Management: 150:153 .....	3 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:120; 860:121; 860:123; 860:132; 860:136 or 860:154; 860:142 .....	24-27 hours
Economics*: 920:024 or 920:053.....	3 hours
	48-51 hours

**Note:** Students on this major are strongly encouraged to complete 130:108. Additional prerequisites for 130:108 are 150:080, 800:072, 920:020, and 920:070.

\*All listed marketing courses have either 920:024 or 920:053 as a prerequisite. Either 920:024 or **both** 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.

## Minors

### Chemistry Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Chemistry and Biochemistry: 860:044 and 860:048, or 860:070 .....	5-8 hours
Electives in chemistry and biochemistry beyond 860:048 or 860:070 .....	12 hours
	17-20 hours

### Chemistry Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Chemistry–Minor–Teaching provides for second endorsement approval by the Iowa Board of Educational Examiners and requires first endorsement approval (major) in another science discipline or general science.

Required:

Chemistry and Biochemistry: 860:044 and 860:048, or 860:070; 860:063*; 860:132; 860:142.....	16-19 hours
Science and Science Education: 820:190; 820:193; 820:196 .....	8 hours
	24-27 hours

\*Students seeking greater familiarity with organic chemistry may substitute 860:120 and 860:123.

## Master of Arts Degree Program

### Major in Chemistry

This major is available as a **non-thesis** plan for students interested in careers in secondary and community college education. The Chemistry and Biochemistry Department offers students a friendly environment featuring regular interaction with their faculty mentors. Students interested in the program must submit a complete application, three letters of recommendation, and transcripts of undergraduate and graduate credits to the Chemistry and Biochemistry Department. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).



## Chemistry and Biochemistry/Communication Sciences & Disorders

A **minimum of 30 semester credit hours** is required for this degree. **A minimum of 15 semester hours of 200-level course work is required.** Specialization is available in the areas of analytical chemistry, biochemistry, chemical education, inorganic chemistry, organic chemistry, and physical chemistry; students generally select a faculty mentor during their first semester of study. Students must submit a research paper.

Successful completion of a final written comprehensive examination is required.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Science: 820:200 .....	2 hours
Chemistry and Biochemistry: 860:292 .....	3 hours
Chemistry and Biochemistry: 860:299 .....	3 hours
Electives (including at least 7 additional hours of 200-level course work in chemistry) .....	22 hours
	30 hours

## Master of Science Degree Program

### Major in Chemistry

This major is available on the **thesis** option for students seeking an extensive research experience in a friendly environment featuring regular interaction with their faculty mentors. Graduates of the program are well prepared for technical positions in industrial or government laboratories or for continued study in doctoral programs in chemistry. Students interested in the program must submit a complete application, three letters of recommendation, and transcripts of undergraduate and graduate credits to the Chemistry and Biochemistry Department. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

A **minimum of 30 semester hours**, including 9 hours of thesis research 860:299, is required for this degree. **A minimum of 20 hours of 200-level course work is required.** Research specialization is available in the areas of analytical chemistry, biochemistry, chemical education, inorganic chemistry, organic chemistry, and physical chemistry; students generally select faculty mentors during their first semester of study.

Students are required to pass an oral comprehensive examination in defense of their final thesis.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Chemistry and Biochemistry: 860:289 (1 hr.); 860:292 (1 hr.); 860:299 (9 hrs.) .....	11 hours
Electives (including at least 9 additional hours of 200-level course work in chemistry and biochemistry) .....	19 hours
	30 hours

## Professional Science Master's Degree Program

### Major in Applied Chemistry and Biochemistry

This **non-thesis** degree which prepares students for career opportunities in businesses utilizing chemical and/or biochemical processes and instrumentation, is open to students who have earned a bachelor's degree in chemistry or biochemistry. It combines chemistry

course work featuring advanced topics and hands-on use of modern instrumentation with business course work focused on problem-solving and decision-making. A **minimum of 30 semester hours** is required. **A minimum of 18 hours of 200-level course work is required.** Students interested in the program must submit to the Department of Chemistry and Biochemistry a complete application, three letters of recommendation, and transcripts of undergraduate and graduate work. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program. A TOEFL score of 600 is required for international students who are non-native English speakers.

Required:

Chemistry and Biochemistry: 860:211 plus one of the following: 860:210, 860:220, 860:240 (3 hrs.), 860:241, 860:242, or 860:254 .....	6 hours
Professional Science: .....	15 hours
Science and Science Education: 820:289 (2 hrs.); 820:295; plus three of the following: Mathematics: 800:274. Science and Science Education: 820:209, 820:215. Physics: 880:160 <b>or</b> Mathematics: 800:123. ....	9 hours
Electives from the following: .....	9 hours
Biology: 840:129, 840:280. Chemistry and Biochemistry: 860:136, 860:137, 860:143, 860:145, 860:149, 860:154, 860:155, 860:156, 860:161. Physics: 880:144, 880:148. ....	30 hours

Other courses may be used as electives with permission of the Chemistry and Biochemistry P.S.M. Steering Committee.

### Notes:

1. Electives may include 200-level chemistry and biochemistry courses beyond the required minimum 6 credit hours.
2. Any student who has not previously taken a biochemistry course must take 860:154 as an elective.

## Department of Communication Sciences and Disorders

### (College of Humanities and Fine Arts)

[www.uni.edu/chfa](http://www.uni.edu/chfa)

C. Highnam, Head. K. Bleile, T. Bohnenkamp, A. Burda, J. Garrett, C. Hageman, J. Lubker, L. Nelson, J. Olsen, B. Plakke.

The Department of Communication Sciences and Disorders offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Communication Sciences and Disorders section in the following order:

#### Undergraduate Major (B.A.)

Communicative Disorders

#### Minor

Speech-Language-Hearing Sciences

#### Graduate Major (M.A.)

Speech-Language Pathology

## Bachelor of Arts Degree Program

### Communicative Disorders Major

The Communicative Disorders major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Communicative Disorders: 51C:006; 51C:106;  
 51C:107; 51C:111; 51C:114; 51C:125; 51C:127;  
 51C:151; 51C:152; 51C:155; 51C:162; 51C:164;  
 51C:175; 51C:177; 51C:180.....37 hours  
 Statistical Measurement: a 3-hour course in statistics  
 selected with approval of the major academic  
 advisor - either 250:180 or 800:072.....3 hours

**Additional requirements:**

Students must select a minimum of 8 credit hours  
 from Option 1 or Option 2 .....8 hours  
 Option 1. Pre-professional speech-language pathology:  
 Communicative Disorders: 51C:129; 51C:155;  
 51C:166; 51C:168.  
 Option 2. Pre-professional audiology:  
 Psychology: 400:154; 400:155; 400:173.  
 Health Promotion and Education: 410:125.  
 Social Work: 450:143.  
 Communicative Disorders: 51C:155; 51C:160;  
 51C:166; 51C:168; 51C:197.

48 hours

Students must have an overall GPA of 3.00 or consent of the department head to declare a major in Communicative Disorders. Declaration of the major must occur before enrollment in 51C:151 and all accompanying courses in that semester's sequence. Transfers into the major must have a GPA of 3.00 to be accepted into the program. An overall GPA of 3.00 must be maintained throughout the undergraduate program or approval to continue must be obtained from the department head. Students must complete 25 clock hours of supervised clinical observation prior to beginning 51C:155.

Students must receive a grade of C or better in the required core courses offered by the Department of Communication Sciences and Disorders, and in the courses taken in either option, in order to receive credit toward the major. Students must repeat any major course (other than the course in statistics) for which they receive a C- or less. Any one course may be repeated once; a second failure to meet the required C grade will necessitate review and consultation with the student's advisor and the department head. If a student does not attain and maintain the grade point requirement of the department, the student's Declaration of Major will be revoked and the individual referred to the Registrar's Office as an undeclared student. All majors and all provisional majors must obtain their advisor's signature before registering for, adding, or dropping classes.

## Minor

### Speech-Language-Hearing Sciences Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Speech-Language-Hearing Sciences minor is intended to pro-

vide students in related fields of study with a basic understanding of speech, language and hearing from birth to senescence and the disorders of communication that arise. This minor is recommended for students who intend to work in the education, social services, or allied health professions.

**Required:**

Communicative Disorders: 51C:006; 51C:106;  
 51C:107; 51C:111; 51C:175.....13 hours  
 Electives: three courses from the following..... 8-9 hours  
 Communicative Disorders: 51C:114; 51C:125;  
 51C:127; 51C:162; 51C:164; 51C:166;  
 51C:168; 51C:177; 51C:180.

21-22 hours

## Master of Arts Degree Program

### Major in Speech-Language Pathology

This major is available on the **thesis** and **non-thesis** options. A **minimum of 40 semester hours** is required for the **thesis** option, and a **minimum of 39 hours** is required for the **non-thesis** option. A minimum of 6 hours of 51C:299 is required for the thesis option. **A minimum of 32 hours 200-level course work is required.**

The Graduate Record Examination (General Test) **is** required for admission to the program.

Successful completion of a final **oral and/or written** comprehensive examination is required for **both thesis and non-thesis options**.

Requirements for this major include both graduate and undergraduate courses considered essential to certification and the master's degree. Asterisked (\*) courses will normally have been completed at the undergraduate level; if not, the student and departmental graduate academic advisor will determine how such incomplete requirements will be met. Students must complete 25 clock hours of supervised clinical observation prior to beginning clinical practice.

Students are expected to receive grades of B- or better in each of the three required credits of 51S:250 Clinical Assessment and each of the four required credits of 51S:255 Advanced Clinical Practice. Students who do not receive a B- grade will be required to meet with the clinic director and department head for review and consultation. Students who demonstrate significant difficulties in the clinical courses, such as failing to meet the B- requirement, may be asked to take an additional semester of either 51S:250 or 51S:255.

Communicative Disorders: 51C:106\*; 51C:107\*; 51C:111\*;  
 51C:114\*; 51C:125\*; 51C:127\*; 51C:129\*; 51C:151\*;  
 51C:152\*; 51C:155\*; 51C:162\*; 51C:166\*; 51C:168\*;  
 51C:175\*; 51C:177\*; 51C:180\*.

**Required:**

Communicative Disorders: 51C:200; 51C:282.....3 hours  
 Speech-Language Pathology core: 51S:222; 51S:226;  
 51S:228; 51S:229; 51S:230; 51S:232; 51S:250  
 (3 hrs.); 51S:255 (4 hrs.).....22 hours  
 Research: 51C:299..... 1-6 hours  
 Thesis option (6 hrs.)  
 Non-thesis option (1-3 hrs.)  
 Internship: 51C:257 and/or 280:250..... 4-16 hours  
 Electives ..... 5-9 hours

A minimum of 2 hours of 51S:289 is required and other courses as approved by the graduate advisor.

Thesis option (5 hrs.)

Non-thesis option (9 hrs.)

39-51 hours

Students may select a thesis or non-thesis option upon consultation with their graduate advisor. In the Department of Communication Sciences and Disorders, all students must have the signature of their advisor for registration for classes, including all adds and drops. Students who are suspended by the Graduate College may not enroll for major courses within this department.

All students must abide by the policies and procedures found in the Graduate Student Handbook, which is published by and available in the department.

The student, in consultation with the advisor, must choose courses designed to meet the standards of the Council on Academic Accreditation of the American Speech-Language-Hearing Association academic requirements for the Certificate of Clinical Competence. Recommendation for clinical certification will be given only upon successful completion of all academic and clinical requirements.

The student must complete a minimum of 400 clock hours of which 25 are observation and 375 are in direct patient contact in the supervised clinical practicum; at least 325 of the 400 clock hours must be at the graduate level. Certificates in specialty areas will be awarded to students who complete the core and a minimum of 6 additional hours in one or two areas of emphasis. Students should consult with their advisor concerning the specialty certificates.

Based on satisfactory completion of an undergraduate degree in Communicative Disorders or the equivalent, course work, clinical assignments, and the internship experience will ordinarily take four semesters and one summer.

Students seeking endorsement #237 by the Iowa Department of Education must enroll in Human Relations (280:170g). In addition, students are required to complete a minimum of 10 semester hours of course work in professional education, to be selected under guidance of the major academic advisor, and 10 semester hours of practicum in a public school internship.

The professional program in speech-language pathology is a program of both undergraduate and graduate courses leading to a Master of Arts degree. The program is designed to prepare students for careers as speech-language pathologists providing remedial services to the speech, language, and hearing disabled in a wide variety of settings including schools, hospitals, clinics, and care centers for the elderly.

## Department of Communication Studies

### (College of Humanities and Fine Arts)

**www.uni.edu/comstudy**

*J. Fritch, Head. R. Bankston, M. Beall, M. Bozik, J. Burtis, P. Carlin, A. Chatham-Carpenter, S. Chen, Z. Chen, V. DeFrancisco, A. Dimitrova, N. Epley, B. Fabos, T. Hall, K. Lavelle, C. Martin, K. Mitchell, P. O'Connor, C. Ogbondah, C. Palczewski, G. Pohl, M. Shaw, P. Siddens, F. Soans, L. Terlip, J. Witte.*

The Department of Communication Studies offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Communication Studies section in the following order:

#### **Undergraduate Majors (B.A.)**

Communication (Liberal Arts)

Communication-Theatre-Teaching (also listed in Department of Theatre)

Communication/Electronic Media

Communication/Public Relations

Political Communication (also listed in Department of Political Science)

#### **Minors**

Business Communication (also listed in Department of Management)

Communication Studies (Liberal Arts)

Communication-Theatre-Teaching (also listed in Department of Theatre)

Communication/Journalism (Liberal Arts)

Communication/Public Relations

#### **Graduate Majors (M.A.)**

Communication Studies

#### **Program Certificates**

Certificate in Public Speaking

Graduate Certificate in Corporate Communication

**Note:** Students majoring in Public Relations must achieve a minimum grade of C (2.00) in all courses to be applied toward departmental majors or minors. To graduate with a major in Communication (Liberal Arts), a student must earn a cumulative GPA of 2.50.

**Advisory Statement:** Requirements of a Communication Studies major or minor may also be used to meet the requirements of another major or minor; but electives may not be counted toward both.

## Enrollment Management Policy

*This policy applies to the following: Communication Liberal Arts Major, Communication/Public Relations Major, Communication/Electronic Media Major, Political Communication Major, Communication Liberal Arts Minor, Business Communication Minor, Communication/Journalism Minor, and Communication/Public Relations Minor.*

## Majors

1. Students may indicate their interest in majoring in a communication program any time after their admission to UNI. Formal indication of interest shall be made via the Declaration of Curriculum form at which time the student will be considered a pre-major and will be assigned an advisor. (For freshmen, this shall be the Communication Studies Advising Office.)
2. A student's freshman year shall be devoted primarily to course work in the Liberal Arts Core. The Liberal Arts Core load shall include 48C:001 (Oral Communication) and 620:005 or 620:015 or 620:034. Major course work shall be limited to courses as recommended by her/his freshman advisor and program policy.
3. By the end of the fall term of a student's sophomore year, pre-majors shall have completed a course major component as designated by the advisor and program policy.
4. The following criteria shall be used for determination of admission:
  - a. 2.70 cumulative GPA in at least 24 hours of course work (to include 48C:001 Oral Communication and 620:005 or 620:015 or 620:034).
  - b. 2.50 average GPA in the designated major component for Communication Studies - Liberal Arts majors (except Political Communication), and a 2.70 average GPA in the designated major component for Public Relations and Electronic Media majors.
  - c. Upon satisfaction of the admission requirements (a and b above), a student shall be converted to major status after the student files a Declaration of Curriculum which will then be processed. The student shall be notified of her/his admission.

## Program Requirements Communication Studies

- d. Students admitted to a major shall be able to continue course work toward their major.
- e. Students unable to satisfy the admission requirements and consequently denied admission shall be notified in writing.
5. Transfer students entering UNI with an associate arts (A.A.) degree shall be admitted to major status if their cumulative GPA is 2.70 or better, and upon the condition that the requirements of both 48C:001 (Oral Communication) and 620:005 or 620:015 or 620:034 were satisfied.
6. Transfer students entering UNI without an A.A. degree shall be subject to the admissions standards requirements of students beginning their higher education studies at UNI, i.e. #4.

### Designated Course Components:

- A. Public Relations: 48J:002, 48P:005.
- B. Electronic Media: 48J:002, 48E:003.
- C. Journalism: 48J:002.
- D. Communication—Liberal Arts: 48C:002; 48C:004 or 48C:031; 48C:080.
- E. Political Communication: none.

## Minors

Admission to any Communication Minor (Liberal Arts, Business Communication, or Public Relations) or Journalism Minor requires a 2.70 cumulative GPA in at least 24 hours of course work (to include 48C:001 Oral Communication and 620:005 or 620:015 or 620:034). (Also, see 4c above.)

## Bachelor of Arts Degree Programs

### Communication Major (Liberal Arts)

The Communication (Liberal Arts) major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Communication (Liberal Arts) major requires the completion of 37-43 credit hours, including a common core of 16 hours. The remainder of the major is a combination of required and elective courses specific to a selected emphasis area. Students select an emphasis area that corresponds with their career objective(s) or educational goal(s).

#### Required:

Communication Studies core: 48C:001; 48C:002; 48C:004 or 48C:031; 48C:011 or 48C:071; 48C:080; 48C:155 .....	16 hours
Emphasis area courses .....	21-27 hours
	37-43 hours

Emphasis areas include: general communication, culture and communication, interpersonal communication, organizational communication, community and communication, etc. Sample plans of study are available for these emphasis areas in the Department of Communication Studies main office.

### Communication – Theatre Major – Teaching

The Communication-Theatre-Teaching major requires a minimum of 122 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements

(page 51), and the following specified major requirements to complete the minimum of 122 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The teaching major in communication and theatre is offered jointly by the Departments of Communication Studies and Theatre.

#### Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:015; 48C:024; 48C:031; 48C:071; 48C:074; 48C:141; 48C:187 .....	29 hours
Theatre: 490:015; 490:024; 490:034 (these three courses may be taken in any sequence; all are prerequisites for 490:161); 490:109; 490:161 .....	15 hours
Applied Activity Option: one hour from: 48C:091/48C:191 or 48C:093/48C:193 or 490:050.....	1 hour
Electives: (3 hours from the following) .....	3 hours
Communication: 48C:108 or 48C:110; 48C:122; 48C:124; 48C:126; 48C:144; 48C:174; 48C:176; 48C:178.	
Theatre: 490:040; 490:060; 490:061; other courses are available, consult with your advisor.	

48 hours

### Communication/Electronic Media Major

The Communication/Electronic Media major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Required:

Electronic Media: 48E:003; 3 hours from 48E:011 or 48E:013 or 48E:112; 48E:021; 48E:071; 48E:121; 48E:132; 48E:141; 3 hours from 48E:179 or 48E:197; 48E:195.....	27 hours
Journalism: 48J:002 .....	3 hours
Electives from the following.....	18 hours
Marketing*: 130:101; 130:106; 130:150.	
Management: 150:153.	
Communication: 48C:004; 48C:011; 48C:108 or 48C:110; 48C:113; 48C:121; 48C:122; 48C:124; 48C:126; 48C:132; 48C:134; 48C:144; 48C:146; 48C:166; 48C:173; 48C:176; 48C:178; 48C:180 or 48C:183 or 48C:189.	
Electronic Media: 48E:073; 48E:111; 48E:113; 48E:115; 48E:117; 48E:123; 48E:131; 48E:134; 48E:136; 48E:138; 48E:139; 48E:161; 48E:166.	
Journalism: 48J:007	

48 hours

\*These courses require either 920:024 or 920:053 as a prerequisite. 920:024 may be used to satisfy Category 5B of the Liberal Arts Core.

### Communication/Public Relations Major

The Communication/Public Relations major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Communication/Public Relations major requires the completion of 18 hours in public relations, 12 hours in communication, 15 hours in journalism and 12 hours in business. (The concentration of study in

business is in keeping with the specific recommendations for public relations education as outlined in *The Design for Undergraduate Public Relations Education: Report of the 1987 Commission on Undergraduate Public Relations Education*, co-sponsored by the Public Relations Division of the Association for Education in Journalism and Mass Communication, and Public Relations Society of America and the Educators Academy of PRSA.)

**Required:**

Accounting: 120:030 .....	3 hours
Marketing: 130:101*; 130:106* .....	6 hours
Management: 150:153 .....	3 hours
Journalism: 48J:002; 48J:007; 48J:071; 48J:132; 48J:172 .....	15 hours
Communication: 48C:004 or 48C:173; 48C:124; 48C:132; 48C:180 or 48C:183 or 48C:189 .....	12 hours
Public Relations: 48P:005; 48P:170 or 48P:184; 48P:173; 48P:182; 48P:188; 48P:190 or 48P:179/48P:197 (3 hrs.) .....	18 hours
	57 hours

\*These courses require 920:024 or 920:053 as a prerequisite. 920:024 will satisfy Category 5B of the Liberal Arts Core.

## Political Communication Major

The Political Communication major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required core:**

Communication: 48C:160; 48C:180 or 48C:183 or 48C:189.6 hours	
Journalism: 48J:002 .....	3 hours
Political Science: 942:014; 943:024 .....	6 hours
History: 961:116 .....	3 hours
Geography: 970:114.....	3 hours
Internship .....	4 hours
Communication: 48C:197 or Political Science: 940:181.	
Emphases (select two areas of focus with 6 hours from each area) .....	12 hours
	37 hours

**Focus Area 1: State and Local Public Affairs** (6 hours)

Political Science: 942:048; 942:131; 942:132.

**Focus Area 2: Political Campaigns and Elections** (6 hours)

Political Science: 942:112; 942:134; 942:150; 942:151.

**Focus Area 3: International Affairs** (6 hours)

Political Science: 943:119; 943:143; 943:145.  
Geography: 970:116.

**Focus Area 4: International Communication** (6 hours)

Communication: 48C:151.  
Journalism: 48J:151.  
Public Relations: 48P:170.

**Focus Area 5: Decision-Making** (6 hours)

Communication: 48C:128/CAP:128; 48C:148; 48C:178.

**Focus Area 6: Political Discourse** (6 hours)

Communication: 48C:113; 48C:123; 48C:174.  
Sociology: 980:138.

**Focus Area 7: Media Analysis** (6 hours)

Electronic Media: 48E:021; 48E:131; 48E:139; 48E:141; 48E:161.

## Minors

See page 102 for Enrollment Management Policy for Communication minors.

## Business Communication Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Business Communication minor is interdisciplinary in nature and offered jointly by the College of Humanities and Fine Arts and the College of Business Administration. It is under the jurisdiction of the Department of Management and the Department of Communication Studies. The minor requires a 15-hour core plus 5-6 hours from one of three emphases.

**Required core:**

Communication: 48C:071; 48C:132 .....	6 hours
Journalism: 48J:007 .....	3 hours
Management: 150:080 OR English Language and Literature: 620:077 .....	3 hours
English Language and Literature: 620:102 or 620:104 or 620:105 .....	3 hours

Required: 5-6 hours from one of three emphases below ..... 5-6 hours  
20-21 hours

## Emphases—

**Business:**

Management: 150:113; 150:114.

OR

**Communication:**

Two of the following:

Communication: 48C:031; 48C:139 or 48C:141; 48C:148\*.

OR

**Journalism and Public Relations:**

Two of the following:

Journalism: 48J:071\*; 48J:172\*; 48J:176\*.

Public Relations: 48P:173\*; 48P:184.

\*These courses require additional prerequisites.

**Note:** When declaring this minor students must:

- have a 2.70 cumulative GPA.
- have satisfactorily completed Categories 1A and 1B of the Liberal Arts Core.

## Communication Studies Minor (Liberal Arts)

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

**Required:**

Communication: 48C:001; 48C:004 or 48C:031; 48C:011 or 48C:071; One of the following: 48C:122 or 48C:123 or 48C:124 or 48C:131* or 48C:144** or 48C:174 or 48C:178 .....	12 hours
Electives in 48C: xxx courses (at least 5-6 hours must be at the 100-level).....	8-9 hours
	20-21 hours

\*48C:131 has prerequisites of 48C:001 and 48C:031. 48C:001 will satisfy Category 1B of the Liberal Arts Core.

\*\*48C:144 has prerequisite of 48C:004.

## Program Requirements Communication Studies

### Communication – Theatre Minor – Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Communication-Theatre-Teaching minor is offered jointly by the Departments of Communication Studies and Theatre.

Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:024;

48C:074; 48C:187 ..... 18 hours

Option A or B (below) ..... 10-12 hours  
28-30 hours

Option A: Communication (10 hours)

Communication: one hour from 48C:091/

48C:191 or 48C:093/48C:193; 48C:015; 48C:071.

Theatre: 490:101 or 490:106/CAP:106.

Option B: Theatre (12 hours)

Theatre: 490:015; 490:024; 490:034; (these three classes must be taken before 490:161); 490:161.

### Communication/Journalism Minor (Liberal Arts)

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Journalism: 48J:002; 48J:007; 48J:071; 48J:132;

48J:171; 48J:172 ..... 18 hours

Electives (Group A) ..... 3-6 hours

Journalism: 48J:121; 48J:151; 48J:166; 48J:176; 48J:178;

48J:197.

Electives (Group B)..... 0-3 hours

Instructional Technology: 240:147

Industrial Technology: 330:169

Art: 600:032

24 hours

### Communication/Public Relations Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Communication: 48C:124; 48C:132 ..... 6 hours

Journalism: 48J:007 ..... 3 hours

Public Relations: 48P:005; 48P:173; 48P:182 ..... 9 hours

Electives ..... 3 hours

Communication: 48C:173; 48C:180 or 48C:183 or 48C:189.

Public Relations: 48P:170; 48P:184; 48P:188.

21 hours

## Master of Arts Degree Program

### Major in Communication Studies

A student may seek a General Communication program or specialize in Communication Education, Mass Communication, Organizational Communication, Performance Studies, or Public Relations. The major is available on the **thesis** and **non-thesis** options. A **minimum of 30 semester hours** for the **thesis** option and **32 hours** for the **non-thesis** option are required. **A minimum of 18 semester hours of 200-level course work is required for the thesis option**, including 6 hours of thesis credit.

**A minimum of 12 semester hours of 200-level course work is required for the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final **written** comprehensive examination is required for **both the thesis and non-thesis options**.

Of the 30-32 hours required:

20 hours of course work in Communication Studies (*no more than 10 hours outside the department and/or by transfer*).

*No more than 6 hours of independent work: readings, projects, or specialized individual instruction.*

*No more than 3 hours of workshop credit.*

Successful completion of comprehensive examinations after completion of 22 hours of course work.

Successful completion of a research paper or thesis (see page 68).

Detailed information on the major, including directions for procedures to follow for applying, in planning a program, and requesting assignment of an advisor, may be obtained from the Head of the Department of Communication Studies, the Director of Graduate Studies, or on the department's Web page at the following address: [www.chfa.uni.edu/comstudy/graduate](http://www.chfa.uni.edu/comstudy/graduate).

### Communication Education Emphasis

#### Non-thesis Option:

Required core: 48C:122; 48C:201; 48C:224;

48C:236; 48C:282..... 15 hours

Electives (to be determined through consultation

with faculty advisor)..... 17 hours  
32 hours

#### Thesis Option:

Required core: 48C:201; 48C:224; 48C:236; 48C:282;

48C:299 (6 hrs.) ..... 18 hours

Electives (to be determined through consultation

with faculty advisor)..... 12 hours  
30 hours

### General Communication Emphasis

#### Non-thesis Option:

Required core: 48C:201; 48C/E/P:224; 48C:236;

one of the following 3-hr. 200-level seminars -

48C:212 or 48C:222 or 48C:232 or 48C:282 or

48E:222 or 48P:282 ..... 12 hours

Electives (to be determined through consultation

with faculty advisor)..... 20 hours  
32 hours

#### Thesis Option:

Required core: 48C:201; 48C/E/P:224; 48C:236;

one of the following 3-hr. 200-level seminars -

48C:212 or 48C:222 or 48C:232 or 48C:282 or

48E:222 or 48P:282; 48C/P:299 (6 hrs.) ..... 18 hours

Electives (to be determined through consultation

with faculty advisor)..... 12 hours  
30 hours

### Mass Communication Emphasis

#### Non-thesis Option:

Required core: 48C:201; 48C/E/P:224; 48C:236; 48E/P:222 ..... 12 hours

## Program Requirements Communication Studies

Electives (to be determined through consultation with faculty advisor).....	20 hours
	32 hours

### **Thesis Option:**

Required core: 48C:201; 48C/E/P:224; 48C:236; 48E/P:222; 48C/E/P:299 (6 hrs.).....	18 hours
Electives (to be determined through consultation with faculty advisor).....	12 hours
	30 hours

### **Organizational Communication Emphasis**

#### **Non-thesis Option:**

Required core: 48C:201; 48C/E/P:224; 48C:232 (6 hrs.); 48C:236; 48C:282.....	18 hours
Departmental electives (to be determined through consultation with faculty advisor) no more than 6 hours may be taken outside the department .....	14 hours
	32 hours

#### **Thesis Option:**

Required core: 48C:201; 48C/E/P:224; 48C:232 (6 hrs.); 48C:236; 48C:282; 48C:299 (6 hrs.).....	24 hours
Electives (to be determined through consultation with faculty advisor). No more than 3 hours may be taken outside the department .....	6 hours
	30 hours

### **Performance Studies Emphasis**

#### **Non-thesis Option:**

Required core: 48C:201; 48C:212; 48C/E/P:224; 48C:236.....	12 hours
Electives (to be determined through consultation with faculty advisor). No more than 9 hours may be taken outside the department.....	20 hours
	32 hours

#### **Thesis Option:**

Required core: 48C:201; 48C:212; 48C/E/P:224; 48C:236; 48C:299 (6 hrs.) .....	18 hours
Electives (to be determined through consultation with faculty advisor). No more than 6 hours may be taken outside the department .....	12 hours
	30 hours

### **Public Relations Emphasis**

#### **Non-thesis Option:**

Required core: 48C:201; 48C/E/P:224; 48C:236; 48P:184; 48P:282 .....	15 hours
Electives: any 100g- or 200-level course in the Department of Communication Studies and/or Public Relations related course work**, in consultation with advisor.....	17 hours
	32 hours

\*\*Related course work includes that in marketing, education, political science, history, sociology, psychology, and other disciplinary areas having a direct relationship to the student's program of study.

#### **Thesis Option:**

Required core: 48C:201; 48C/E/P:224; 48C:236; 48P:184; 48P:282; 48P:299 (6 hrs.) .....	21 hours
Electives: any 100g- or 200-level course in the Department of	

Communication Studies and/or Public Relations related course work**, in consultation with advisor.....	9 hours
	30 hours

\*\*Related course work includes that in marketing, education, political science, history, sociology, psychology, and other disciplinary areas having a direct relationship to the student's program of study (and other courses approved by advisor).

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following certificates, contact the Department of Communication Studies or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Public Speaking

This certificate is designed to prepare students to become effective speakers and presenters. The certificate is focused on skill development and allows the student to gain experience in message construction and delivery.

#### Required:

Communication: 48C:011; 48C:071; 48C:168 .....	9 hours
Electives from the following.....	6 hours
Communication: 48C:020; 48C:074; 48C:123; 48C:176; 48C:178; 48C:189 .....	15 hours

### Graduate Certificate in Corporate Communication

This certificate is designed to provide advanced studies distinct from existing M.A. programs in the department (i.e., public relations, organizational communication, etc.). This certificate is designed to provide enhanced communication skills, abilities and knowledge necessary for effective functioning in business settings.

#### Program prerequisites:

Students who apply to this program must be admitted to graduate studies at UNI under the degree status category. Consult the Graduate College and/or the Department of Communication Studies for further information.

#### Required:

Communication: 48C:134; 48C:135; 48C:166 or another course in communication approved by the advisor; 48P:184 .....	12 hours
Electives from the following.....	3 hours
Communication: 48C:222; 48C:232. Public Relations: 48P:282. ....	15 hours

## Department of Computer Science

### (College of Natural Sciences)

**www.cs.uni.edu/**

*E. Wallingford, Head. J. Drake, P. East, M. Fienup, P. Gray, J. McCormick, K. O'Kane, A. Poleksic, B. Schafer.*

The Department of Computer Science offers the following undergraduate and graduate programs, and program certificates. Specific requirements for these programs are listed within this Department of Computer Science section in the following order:

#### **Undergraduate Majors (B.S.)**

Bioinformatics  
Computer Science  
Networking and System Administration

#### **Undergraduate Majors (B.A.)**

Computer Information Systems  
Computer Science

#### **Minors**

Bioinformatics  
Computer Information Systems  
Computer Science

#### **Graduate Majors (M.S.)**

Computer Science  
Program Certificate  
Certificate in Computer Applications  
Certificate in Software Testing

#### **Notes:**

1. Undergraduate students who have been admitted to the university provisionally because of non-satisfaction of the high school mathematics requirements may not enroll in any computer science credit course before this requirement has been met.
2. All courses counting toward a major or minor in computer science must be passed with a grade of C- or better.
3. Prerequisite computer science courses must be passed with a grade of C before taking a subsequent course.
4. All computer science majors must complete a project course (marked with asterisk in the degree statements). The course used to meet this requirement is to be taken in the area of specialization, i.e., an area in which at least three courses are taken.
5. All courses in a prerequisite chain to a course are considered regressive to it - students may not take them for credit after passing the later course. Additionally, 810:030, 810:035, 810:036 are regressive to 810:052 and any course having it as prerequisite.

## Bachelor of Science Degree Programs

### **Bioinformatics Major**

The B.S. Bioinformatics major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:064 .....7 hours  
Computer Science: 810:051; 810:080; 810:165; 810:166 .....13 hours

Biology: 840:052; 840:127; 840:140 .....11 hours  
Chemistry and Biochemistry: 860:070 or both 860:044  
and 860:048; 860:063 or 860:120 ..... 8-12 hours  
Research: 1 hour related to Bioinformatics in either  
800:194, 810:180, 840:190, or 860:180 ..... 1 hour  
Electives: (18 hours split between two emphases with  
at least 6 hours taken from each emphasis) .....18 hours  
Mathematics Emphasis: 800:061, 800:152, 800:154, 800:164.  
Computer Science Emphasis: 810:052, 810:114, 810:115,  
810:143\*, 810:172.  
Biology Emphasis: 840:100, 840:119, 840:121, 840:128,  
840:129, 840:144, 840:152, 840:153.  
Chemistry Emphasis: 860:122, 860:154, 860:155,  
860:156.

58-62 hours

\*Requires additional prerequisite of 810:041.

### **Computer Science Major**

The B.S. Computer Science major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Computer Science: 810:041; 810:051; 810:052;  
810:053; 810:080 .....17 hours  
Research: 810:180 (topic pre-approved by department) ..... 1 hour

Electives:

Mathematics: (4 courses from the following) .....13 hours  
800:060#; 800:061#; 800:072 or 800:092; 800:076;  
800:143; 800:152; 800:164; 800:169; 800:176; 800:177.  
Computer Science: .....24 hours  
Eight courses including: a specialization of three courses  
from the Foundations area; a specialization of three  
courses from one other area; one course from each of  
the remaining two areas; one of the specializations must  
include a projects course (marked with an asterisk\*).  
Foundations: 810:153; 810:154; 810:155\*; 810:161#;  
810:162\*; 810:181; 810:188.  
Information Science: 810:112\*; 810:114; 810:115;  
810:116\*; 810:118.  
Software Engineering: 810:172; 810:173\*; 810:174\*#;  
810:175\*.  
Systems: 810:140; 810:141; 810:142; 810:143; 810:145\*;  
810:147.

Electives: two additional courses selected from some of the computer  
science area courses and 100-level courses meeting the  
mathematics requirement .....6 hours  
61 hours

\*One course marked with an asterisk must be completed.

#800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

### **Networking and System Administration Major**

The B.S. Networking and System Administration major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours.



Liberal Arts Core courses included in major program requirements are distinguished by italics.

**Required:**

Industrial Technology: 330:037; 330:039; 330:041; 330:103; 330:104; 330:152; 330:156.....	21 hours
Mathematics: <i>800:060</i> ; 800:061.....	8 hours
Computer Science: 810:041; 810:051; 810:052; 810:053; 810:080; 810:140; 810:141; 810:143; 810:147; 810:180 (1 hr.) .....	30 hours
Physics: <i>880:130</i> ; 880:131 .....	8 hours
Electives: two courses from the following .....	6 hours
Computer Science: 810:112; 810:114; 810:115; 810:116; 810:118; 810:142; 810:145; 810:153; 810:154; 810:155; 810:161#; 810:162; 810:181; 810:188.	
	<u>73 hours</u>

#810:161 is a 4-hour course if taken with lab.

## Bachelor of Arts Degree Programs

### Computer Information Systems Major

The B.A. Computer Information Systems major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Computer Science: 810:041; 810:051; 810:052; 810:053; 810:080.....	17 hours
Business core:	
Accounting: 120:030; 120:031.....	6 hours
Marketing: 130:101.....	3 hours
Management: 150:153.....	3 hours
Economics: <i>920:024</i> or 920:053 .....	3 hours

**Electives:**

Mathematics: (two courses from the following) .....	6 hours
<i>800:060#</i> ; 800:061#; <i>800:072</i> or <i>800:092</i> ; 800:076; 800:143; 800:152; 800:164; 800:169; 800:176; 800:177.	
Computer Science: .....	18 hours
Six courses including three courses from either the Software Engineering* or Information Science* area and one course from each of the remaining three areas.	
Foundations: 810:153; 810:154; 810:155; 810:161#; 810:162; 810:181; 810:188.	
Information Science: 810:112*; 810:114; 810:115; 810:116*; 810:118.	
Software Engineering: 810:172; 810:173*; 810:174*#; 810:175*.	
Systems: 810:140; 810:141; 810:142; 810:143; 810:145; 810:147.	

Electives: two additional courses selected from the above  
computer science courses and 100-level mathematics  
courses, or 810:034 ..... 6 hours  
62 hours

\*A project course (marked with asterisk) must be taken as one of three in an area of specialization.

#800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

### Computer Science Major

The B.A. Computer Science major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Computer Science: 810:041; 810:051; 810:052; 810:053; 810:080.....	17 hours
---	----------

**Electives:**

Mathematics: (two courses from the following) .....	6 hours
<i>800:060#</i> ; 800:061#; <i>800:072</i> or <i>800:092</i> ; 800:076; 800:143; 800:152; 800:164; 800:169; 800:176; 800:177.	

Select one of the following core areas as a specialty..... 18 hours

Six courses\* including three courses from selected specialty  
and one from each of the other three areas.

Foundations: 810:153; 810:154; 810:155*; 810:161#; 810:162*; 810:181; 810:188.	
Information Science: 810:112*; 810:114; 810:115; 810:116*; 810:118.	
Software Engineering: 810:172; 810:173*; 810:174*#; 810:175*.	
Systems: 810:140; 810:141; 810:142; 810:143; 810:145*; 810:147.	

Electives: one additional course selected from the above  
computer science courses and 100-level mathematics  
courses..... 3 hours  
44 hours

\*A project course (marked with asterisk) must be taken as one of three in an area of specialization.

#800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

## Minors

### Bioinformatics Minor

The Bioinformatics minor is a multidisciplinary program designed to provide basic proficiency in computational biology and bioinformatics. Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

**Required:**

Computer Science: 810:036 or 810:051 or equivalent; 810:080; 810:165; 810:166.....	12-13 hours
---	-------------

Electives ..... 9 hours

Mathematics: <i>800:064</i> ; 800:072; 800:152; 800:154; 800:164; 800:174.	
Biology: <i>840:052</i> ; 840:119; 840:127; 840:140; 840:153.	
Chemistry and Biochemistry: <i>860:044</i> ; 860:048; 860:063; <i>860:070</i> ; 860:120.	

21-22 hours

### Computer Information Systems Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

**Required:**

Computer Science: 810:034; 810:051; 810:052; 810:053; 810:080.....	17 hours
---	----------

Electives ..... 3 hours

## Program Requirements

### Computer Science/Curriculum and Instruction

Computer Science: 810:114; 810:115; 810:161;  
810:172.

20 hours

## Computer Science Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Computer Science: 810:041; 810:051; 810:052;

810:053; 810:080.....17 hours

Electives: any course 810:1xx (excluding 810:151) or above.....9 hours  
26 hours

## Master of Science Degree Program

### Major in Computer Science

This M.S. program is designed to foster preparation for applied professional careers in the computing sciences. The program emphasizes concentration in a professional sub-discipline, while at the same time providing enough breadth and theory to enable the graduate to adapt to developments in the discipline as a whole. Areas of concentration currently available include agent assisted interfaces, artificial intelligence, bioinformatics, collaborative information systems, computer science education, computer systems, distributed computing, electronic commerce, human-computer interfaces, information storage and retrieval, network administration, parallel environments and algorithms, real-time systems, recommender systems, and software engineering.

This major is available on a **thesis** and **non-thesis** option. A **minimum of 33 semester hours** is required for completion of the M.S. program. Students who select the thesis option will be required to complete at least 6-9 hours of 810:299 thesis research. Students who select the non-thesis option must complete a 6-hour software development project. **A minimum of eighteen (18) hours of 200-level (or above) course work is required.** For **both the thesis and non-thesis options**, students must pass an oral defense of their final project.

The Graduate Record Examination (General Test) **is** required for admission to the program.

Courses in the student's areas of concentration provide in-depth knowledge of a professional sub-discipline. These 15 hours consist of 9 hours within computer science (excluding both computer science education and research project credits) and 6 cognate hours from outside computer science. These hours must be approved by the Graduate Committee. However, students who have a bachelor's degree in an area outside of Computer Science may take all 15 hours of their concentration-area hours within Computer Science.

Bachelor's-level experience in computer science is suggested for program admission, but students from related disciplines who show outstanding promise are also encouraged to apply. Students without a bachelor's degree in computer science may be required to complete up to 14 hours of course work in the discipline before gaining full admission to the program.

Required:

Computer Science: 810:240; 810:270; 810:280.....9 hours

Concentration area: .....15 hours

Research/Project:

Thesis: 810:299 (6 hrs.)

Non-Thesis: 810:299 (3 hrs.) and 810:286 (3 hrs.)

*Studies in Computer Science project*

Electives .....9 hours  
33 hours

Students in this program are exempt from general limitations on the number of hours of research credit. M.S. Computer Science programs of study may include 6 hours or more of 810:299 research credit. However, the number of hours greater than 6 hours must be in addition to the minimum 33 hours required for the degree.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following certificates, contact the Department of Computer Science or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Computer Applications

Required:

Computer Science: 810:021; 810:022; 810:023.....9 hours

Electives .....3 hours

Computer Science: 810:030; 810:088.

Other courses pre-approved by the Computer  
Science Department.

12 hours

### Certificate in Software Testing

The Certificate in Software Testing prepares students for employment as testers of software that is created for their major field of study. Their major field of study gives students domain knowledge and the certificate program teaches them the computer skills needed for testing.

Required:

Computer Science: 810:024; 810:030; 810:071;

810:080; 810:175.....15 hours

15 hours

## Department of Curriculum and Instruction

### (College of Education)

[www.uni.edu/coe/ci](http://www.uni.edu/coe/ci)

M. Herring, Interim Head. P. Beed, M. Betterton, M. Cai, C. Christensen, J. Cornett, R. DeVries, J. Donaldson, R. Edmiaston, L. Ensworth, J. Finkelstein, L. Fitzgerald, B. Heitzman, G. Holmes, K. Krueger, R. Kueter, D. Landis, J. Marchesani, C. May, J. McClain, K. Meredith, L. Nielsen, J. Nooren, B. Safford, J. Schneider, D. Schumacher-Douglas, J. Smith, J. Steele, G. Stefanich, D. Tallakson, D. Tidwell, R. Traw, V. Trent, J. Uhlenberg, T. Weih, B. Zan, L. Zeitz.

The Department of Curriculum and Instruction offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Curriculum and Instruction section in the following order:

#### Undergraduate Majors (B.A.)

Early Childhood Education-Teaching

Elementary Education-Teaching (K-6 General Classroom  
Teacher)

## Program Requirements Curriculum and Instruction

### Endorsement Minors/Concentrations:

Art (K-8)-Teaching  
Basic Science (K-8)-Teaching  
Elementary School Teacher Librarian (K-8)-Teaching  
Health Education (K-8)-Teaching  
History (K-8)-Teaching  
Mathematics (K-8)-Teaching  
Modern Languages (K-8)-Teaching  
Physical Education (K-8)-Teaching  
Social Studies (K-8)-Teaching  
Special Education-Teaching  
Middle Level Education Dual Major-Teaching

### Minors

Educational Technology  
Literacy Education-Teaching  
Media  
School Teacher Librarian-Teaching

### Graduate Majors (M.A.)

Curriculum and Instruction: Instructional Technology  
Performance and Training Technology  
School Library Studies

### Graduate Majors (M.A.E.)

Curriculum and Instruction: Early Childhood Education  
Curriculum and Instruction: Education of the Gifted  
Curriculum and Instruction: Elementary Education  
Curriculum and Instruction: Literacy Education  
Curriculum and Instruction: Middle Level Education

### Graduate Majors (Ed.D.)

Doctor of Education: Curriculum and Instruction intensive study area

### Program Certificate

Instructional Technology Facilitator Certificate

Teaching: 280:132 ..... 12 hours  
33 hours

## II. Early Childhood Education Major Requirements

### Required:

Educational Psychology: 200:109 .....3 hours  
Elementary, Early Childhood, and Middle Level  
Education: 210:121; 210:130; 210:149; 210:151;  
210:161; 210:164; 210:192 (2 hrs.) .....20 hours  
Literacy Education: 230:044; 230:115 .....6 hours  
Design, Textiles, Gerontology, & Family Studies:  
310:031.....2 hours  
Mathematics: 800:031; 800:131; 800:134 ..... 9 hours  
40 hours

Students seeking dual endorsement, Early Childhood Education with Elementary, may do so by completing a program which includes the following additional course work:

Elementary, Early Childhood, and Middle Level  
Education: 210:120; 210:152.....6 hours  
Literacy Education: 230:116.....3 hours  
Health Promotion and Education: 410:135 or  
Physical Education: 420:045 or  
Health, Physical Education and Leisure  
Services-Interdepartmental: 440:045 ..... 2-3 hours  
Elementary, Early Childhood, and Middle Level  
Education: 210:123 or  
Music: 520:102 or  
Art: 600:090..... 2-3 hours  
13-15 hours

A 2.50 grade index in all course work at the University of Northern Iowa, and, also, a 2.50 GPA in all course work at this university and elsewhere, or the approval of the head of the Department of Curriculum and Instruction is required for registration in major courses in the department.

Students should plan their course work so that all Early Childhood courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:121; 210:130; 210:149; 210:151; 210:161; 210:164; 230:115; 800:134. Students should apply for their student teaching one year in advance.

## Elementary Education Major-Teaching (K-6 General Classroom Teacher) (Extended Program)

The student will complete the Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements, the major requirements, a 24-hour area of concentration or an endorsement minor, and electives to complete a minimum of 125-144 hours (depending on minor chosen). The prescribed program is as follows:

### I. Professional Education Requirements—Elementary Education

#### Required:

Special Education: 220:150 .....2 hours  
Instructional Technology: 240:031\* .....3 hours  
Human Relations: 280:170.....3 hours  
(Before enrolling in 280:170, the student must be fully admitted to the Teacher Education Program.)

#### Level I

Educational Psychology: 200:017; 200:030 .....4 hours

#### Level II

(Before enrolling in Level II, the student must be fully

## Bachelor of Arts Degree Programs

### Early Childhood Education Major-Teaching

This major leads to licensure for teaching young children from birth through grade 3. The student will complete the Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements, the specified major requirements, plus electives to complete a minimum of 120 hours. The prescribed program is as follows:

### I. Professional Education Requirements—Early Childhood Education

#### Required:

Special Education: 220:150 .....2 hours  
Instructional Technology: 240:031 .....3 hours  
Human Relations: 280:170.....3 hours  
(Before enrolling in 280:170, the student must be fully admitted to the Teacher Education Program.)

#### Level I

Educational Psychology: 200:017; 200:030 .....4 hours

#### Level II

(Before enrolling in Level II, the student must be fully admitted to the Teacher Education Program.)

Educational Psychology: 200:128; 200:148 .....4 hours  
Measurement and Research: 250:150 .....2 hours

#### Level III

(Before enrolling in Level III, the student must be fully admitted to the Teacher Education Program.)

Social Foundations: 260:119 .....3 hours

## Program Requirements

### Curriculum and Instruction

admitted to the Teacher Education Program.)  
 Educational Psychology: 200:128; 200:148 .....4 hours  
 Measurement and Research: 250:150 .....2 hours

#### Level III

(Before enrolling in Level III, the student must be fully admitted to the Teacher Education Program.)  
 Social Foundations: 260:119 .....3 hours  
 Teaching: 280:134 Elementary Teaching ..... 12 hours  
 33 hours

## II. Elementary Education Major Requirements

Required:

Elementary, Early Childhood, and Middle Level Education: 210:120 or 210:122; 210:150 or 210:152; 210:161; 210:164 .....12 hours  
 Elementary, Early Childhood, and Middle Level Education: 210:123 or Music: 520:102 or Art: 600:090 ..... 2-3 hours  
 Literacy Education: 230:044; 230:115; 230:116 (Middle Level/Elementary Education double majors may substitute 230:117 for 230:116) .....9 hours  
 Health Promotion and Education: 410:135 or Physical Education: 420:045 or Health, Physical Education and Leisure Services-Interdepartmental: 440:045 ..... 2-3 hours  
 Mathematics: 800:031; 800:131; 800:134 ..... 9 hours  
 34-36 hours

\*Students must select 240:031 in place of 240:020 in the Professional Education Requirements unless the computer requirement is addressed in a minor subject field or elective course.

A 2.50 grade index in all work at the University of Northern Iowa and, also, a 2.50 GPA on all course work at this university and elsewhere, or the approval of the head of the Department of Curriculum and Instruction is required for registration in major courses in the department.

Students should plan their course work so that the following courses are taken concurrently as a professional semester block, prior to student teaching:

Elementary, Early Childhood, and Middle Level Education: 210:120 or 210:122; 210:161; 210:164.  
 Literacy Education: 230:116.  
 Mathematics: 800:134.

To be eligible for the courses in the Professional Semester block, students must have completed Level II of the Professional Education Requirements, a curriculum course (210:150 or 210:152), and have a cumulative 2.50 GPA. Students should plan their course work so that all Elementary Education courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:120 or 210:122; 210:161; 210:164; 230:115; 230:116; 800:134. Students should apply for their student teaching one year in advance.

**III. Area of Concentration:** Students will include either a 24-hour area of concentration or endorsement minor. The student may choose from one of the following areas of concentration or approved university minors. In special circumstances a 24-hour emphasis may be approved by the head of the Department of Curriculum and Instruction in an area not listed.

#### Art Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Art: 600:018; 600:019; 600:026; 600:027; 600:040; 600:041; 600:091; 600:092 .....23 hours  
 Elective in art: may include 600:002 or 600:004 ..... 6 hours  
 29 hours

#### Basic Science Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

For those pursuing K-6 general classroom teacher licensure with an endorsement in Basic Science (K-8).

Required:

Science and Science Education: 820:031; 820:032; 820:033; 820:130; 820:181 .....18 hours  
 Biology: 840:181 .....4 hours  
 Earth Science: 870:181 ..... 4 hours

Electives:

Chemistry and Biochemistry, or Physics (select one): 860:010 (4 hrs.); 860:061; 880:011 ..... 4 hours  
 30 hours

#### Elementary School Teacher Librarian Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Elementary majors interested in a minor in the school library area should complete the work listed for the School Teacher Librarian Minor-Teaching. See page 112.

#### Health Education Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required .....28 hours

(The Health Education Minor (K-8) is under the jurisdiction of the School of Health, Physical Education and Leisure Services.

Requirements are listed on page 140.)

#### History Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Elementary, Early Childhood, and Middle Level Education: 210:143 .....3 hours  
 History: 961:014; 961:015; 961:130; 9 hours of world history including 3 hours of European history and 3 hours of non-Western history .....18 hours

Electives in history ..... 3 hours  
 24 hours

#### Mathematics Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Mathematics: 800:031; 800:037; 800:111; 800:112; 800:113; 800:114; 800:131 .....23 hours

One of the following two courses:..... 1 hour  
 Mathematics: 800:137; 800:192. \_\_\_\_\_  
 24 hours

### **Modern Languages Minor (K-8)—Teaching**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required .....29 hours  
 (These emphases are under the jurisdiction of the Department of Modern Languages and requirements are on pages 177-178.  
 Minors can be selected from French, German, Portuguese, Russian, and Spanish.)

### **Physical Education Minor (K-8)—Teaching**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required .....26 hours  
 (The K-8 Physical Education Minor is under the jurisdiction of the School of Health, Physical Education and Leisure Services.  
 Requirements are listed on page 143.)

### **Social Studies Minor (K-8)—Teaching**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:  
 Elementary, Early Childhood, and Middle Level  
 Education: 210:143 .....3 hours  
 Completion of 21 hours in social studies to include course work  
 from at least 3 of the following areas: .....21 hours  
 Psychology: 400:xxx.  
 Economics: 920:xxx.  
 American Government: 942:xxx.  
 History: 960:xxx; 961:xxx; 962:xxx; 963:xxx; 964:xxx.  
 Geography: 970:xxx.  
 Sociology: 980:xxx; 982:xxx.  
 In addition to the course work in three areas above, courses may be  
 taken from:  
 Social Science: 900:xxx.  
 Anthropology: 990:xxx. \_\_\_\_\_  
 24 hours

### **Special Education Minor—Teaching**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required .....24 hours  
 (The Instructional Strategist I: Mild/Moderate K-8 emphasis  
 is under the jurisdiction of the Department of Special Education,  
 and requirements are listed on page 206.)

## **Middle Level Education Dual Major-Teaching**

This major is designed to prepare students to teach young adolescents at the middle level of education (grades 5-8). This is a dual major and must be combined with either an elementary or secondary education teaching major. This major leads to State of Iowa Middle School Endorsement. Students will complete Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51),

major requirements for middle level education, major requirements for elementary or secondary education, and endorsement requirements for middle school teacher for a minimum total of 125 hours.

### **OPTION A**

The holder of this endorsement is authorized to teach all subjects in grades five through eight with the exception of art, industrial arts, music, reading, physical education and special education. **Students must complete all requirements before August 2009.**

Required:  
 Educational Psychology: 200:152 .....3 hours  
 Middle Level Education: 210:122; 210:135; 210:150 .....9 hours  
 Methods courses in at least one content area .....3 hours  
 Literacy Education: 230:116 or 230:117 .....3 hours  
 Courses selected with approval of advisor .....12 hours  
 30 hours

Students will complete a minimum of 12 hours of course work in two subject area concentrations and 6 hours of course work in two other subject area concentrations. Subject area concentrations: 1) must include course work that is broad, multidisciplinary, and encompass the major areas within the field; 2) are limited to the following four areas; and 3) must include the specified course work.

Required:  
 Mathematics: to include algebra .....6-12 hours  
 Science: to include life and physical .....6-12 hours  
 Social Studies: to include American history, world  
 history, and geography .....6-12 hours  
 Language Arts: to include speech, composition,  
 and grammar .....7-12 hours  
 37 hours

Some or all of this course work may be completed as part of the Liberal Arts Core requirements. Students should contact their advisor, the College of Education Advising Center, and the undergraduate record analyst in the Registrar's office to determine specific courses required for the endorsement.

### **OPTION B**

The holder of this endorsement is authorized to teach in grades five through eight in the two concentration areas in which the specific requirements have been completed. The holder is not authorized to teach art, industrial arts, music, reading, physical education and special education, but may teach in other areas allowed by the State of Iowa.

Required:  
 Educational Psychology: 200:152 .....3 hours  
 Middle Level Education: 210:122; 210:135; 210:150 .....9 hours  
 Literacy Education: 230:117 .....3 hours  
 Courses selected with approval of advisor .....15 hours  
 30 hours

Students will complete a minimum of 12 hours of course work in two subject area concentrations. Subject area concentrations are limited to the following four areas and must include the specified course work.

Required:  
 Mathematics: to include algebra .....12 hours  
 Science: to include life, earth, and physical .....12 hours  
 Social Studies: to include United States history, world  
 history, government, and geography .....12 hours  
 Language Arts: to include composition, language usage,  
 speech, young adult literature, and literature

## Program Requirements

### Curriculum and Instruction

across cultures (13 hours).....13 hours  
24-25 hours

Some or all of this course work may be completed as part of the Liberal Arts Core requirements. Students should contact their advisor, the College of Education Advising Center, and the undergraduate record analyst in the Registrar's office to determine specific courses required for the endorsement.

Students should plan their course work so that all Middle Level Education courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:122; 210:135; 230:117, and other methods courses required by their second major. Students should apply for their student teaching one year in advance.

The program should be planned so the following courses are completed after Level II of the Professional Education Requirements and prior to student teaching: 210:122; 210:135; 210:150; and all methods courses. The student teaching semester will include two experiences, one in either an elementary or secondary classroom and the other in a junior high or middle school classroom. Students enroll for 280:137 and 280:134 or 280:138 for a total of 12 hours.

## Minors

### Educational Technology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Instructional Technology: 240:020 or 240:031;  
240:030; 240:131 ..... 8-9 hours

Electives (must be approved by program advisor):

240:138; 240:139; 240:140; 240:147; 240:150; 240:153;  
240:160; 240:170; 240:186 (Studies in).....9 hours  
17-18 hours

### Literacy Education Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Literacy Education: 230:140; 230:193 (1 hr.).....4 hours  
Course work chosen for appropriate endorsement.....21 hours  
25 hours

#### Reading K-8 Endorsement (21 hours)

Literacy Education: 230:044; 230:115; 230:116 or  
230:117; 230:119; 230:121; 230:147; 230:192.

#### Reading 5-12 Endorsement (21 hours)

Literacy Education: 230:117; 230:119 or 630:165; 230:147; 230:192.  
English Language and Literature/Linguistics: 620:040 or 620:053;  
620:165; 620:193, 630:125, or 630:130.

#### English/Language Arts K-8 Endorsement (21 hours)

Literacy Education: 230:044; 230:115; 230:116; 230:119; 230:121.  
English Language and Literature/Linguistics: 620:040, 620:053,  
or 620:165.  
Theatre: 490:101 or 210:123.  
In order to declare the Literacy Education Minor, a student must

have a cumulative and UNI GPA of 3.00 or higher. To continue in the minor, students must earn a grade of B- (2.67) or above in minor courses numbered 230:119 or above and maintain a cumulative and UNI GPA of 3.00 or higher.

Persons selecting this program are eligible for the State of Iowa Reading K-8, Reading 5-12, or English/Language Arts K-8 endorsement, depending on their choice of courses.

### Media Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Instructional Technology: 240:138; 240:139 .....6 hours

Electives: .....12 hours

Instructional Technology: 240:147; 240:150; 240:153;  
240:160 (sections 1-4); 240:170.

18 hours

### School Teacher Librarian Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Instructional Technology: 240:150 ..... 3 hours

School Library Studies: 350:114; 350:115; 350:132

(for K-8 endorsement) or 350:134 (for 5-12  
endorsement); 350:223; 350:225; 350:250;

350:290 (3 hrs.) .....21 hours  
24 hours

Persons completing this program are eligible for either the K-8 or the 5-12 school teacher librarian endorsement, depending on the level of basic teaching license.

This minor includes graduate credits and will require students to enroll as graduate students for those credits. Graduate credit will not be awarded unless the student is admitted to graduate study.

## Master of Arts Degree Programs

### Major in Curriculum and Instruction: Instructional Technology

This major is designed to prepare educators for a variety of professional positions in educational settings, including: school building level, school district level, and alternative schools.

This major is available on both the **thesis** and **non-thesis** options, and requires a **minimum of 35-44 semester hours depending on the option chosen. A minimum of 15 semester hours of 200-level course work is required for the thesis option. A minimum of 12 semester hours of 200-level course work is required for the non-thesis option.**

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

All students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. This comprehensive examination will normally accompany the thesis defense. A student completing the thesis option must include 6

hours of 240:299 in the program of study.

All students completing the **non-thesis** option are required to complete the departmental graduate research requirement and prepare a comprehensive ePortfolio at the end of the student's program of study.

**Required:**

Curriculum and Instruction: 210:201 .....3 hours  
 Literacy Education: 230:212.....3 hours  
 Instructional Technology: 240:139; 240:232; 240:237;  
     240:240; 240:289 .....14 hours  
 Measurement and Research: 250:205 .....3 hours  
 Research: 240:299 .....2 or 6 hours  
     Thesis option (6 hrs.)  
     Non-thesis option (2 hrs.)

Electives: Choose Option 1 or 2 below ..... 6-15 hours  
     Option 1 (6 hrs. - thesis) (10 hrs. - non-thesis)  
     Option 2 (15 hrs.)

35-44 hours

**Option 1**

**Electives:**

Educational Psychology: 200:214.  
 Instructional Technology: 240:131; 240:138; 240:140; 240:147;  
     240:150; 240:153; 240:170; 240:205; 240:210; 240:260; 240:285;  
     240:286; 240:297.

**Option 2**

**Electives:**

School Library Studies: 350:114; 350:132 or 350:134; 350:225;  
     350:250; 350:290.

## Major in Performance and Training Technology

This major is offered by the Department of Curriculum and Instruction as a program in performance and training technology for persons planning to work in non-K-12 school or corporate settings.

This major is available on the **thesis** and **non-thesis** options, and is designed for a **minimum of 35 semester hours. A minimum of 15 semester hours of 200-level course work is required for the thesis option. A minimum of 12 semester hours of 200-level course work is required for the non-thesis option.**

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

All students completing the **thesis** option are required to pass an oral examination prepared and administered by the thesis committee. The examination will be comprehensive in nature and will normally accompany the thesis defense. A student completing the thesis option must include 6 hours of 240:299 in the program of study.

All students completing the **non-thesis** option are required to complete the departmental graduate research requirement and prepare a comprehensive portfolio at the end of the student's program of study.

Majors in this area will complete a basic core of course work applicable to all preparing to work as trainers, instructional designers, or production specialists. Specific areas of interest will determine the supporting electives. Teacher licensure is not required. The student's baccalaureate degree may be in any field.

**Required:**

Instructional Technology: 240:139; 240:235; 240:240;  
     240:245; 240:289 .....14 hours  
 Measurement and Research: 250:205 .....3 hours  
 Research: 240:299 .....2 or 6 hours  
     Thesis option (6 hrs.)  
     Non-thesis option (2 hrs.)

**Electives:**

A minimum of 12 hours of electives are required from the following courses:

Instructional Technology: 240:150; 240:153; 240:170;  
     240:205; 240:210; 240:230; 240:260; 240:285;  
     240:286; 240:297 .....12 hours

Other electives as advised (non-thesis option only) .....4 hours  
     35 hours

## Major in School Library Studies

This major is available on the **thesis** and **non-thesis** options. A **minimum of 40 semester hours** is required for the **thesis** option, and a **minimum of 36 semester hours** is required for the **non-thesis** option. **A minimum of 15 hours of 200-level course work is required for the thesis option. A minimum of 12 hours of 200-level course work is required for the non-thesis option.**

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students choosing the **thesis** option are required to write a thesis and pass an oral defense conducted by the thesis committee. Students choosing the **non-thesis** option are required to complete the departmental graduate research requirement. In lieu of a comprehensive examination, all students must complete a comprehensive portfolio that meets the requirements of the division faculty, during their final semester of course work.

Students completing this major are eligible for the K-12 School Teacher Librarian endorsement if they hold or are eligible to hold a teaching license.

**Required:**

Instructional Technology: 240:150 .....3 hours  
 School Library Studies: 350:114; 350:115; 350:132;  
     350:134; 350:223; 350:225; 350:230; 350:250;  
     350:290; 350:295 .....29-31 hours  
 Research: 350:299 .....1-6 hours  
     Thesis option (6 hrs.)  
     Non-thesis option (1-3 hrs.)

Electives: as approved by advisor to a program minimum

total of 36 hours .....0-3 hours  
     36-40 hours

Students who have previous course work which is equivalent to required courses are encouraged to take elective courses in instructional technology, gifted education, postsecondary education, or other education-related programs.

## Master of Arts in Education Degree Programs

### Major in Curriculum and Instruction: *Specialty Area Focus*

The Curriculum and Instruction: *Specialty Area Focus* master's programs have as their focus the improvement of learning environments for K-12 children. The programs will have a common core. Students entering this master's program will need to select a specialty area for their primary area of study. The diploma for the degree will indicate the specialty area.

This master's degree is available on the **thesis** and **non-thesis** options. **A minimum of 15 hours of 200-level course work is required for the thesis option. A minimum of 12 hours of 200-level course work is required for the non-thesis option.** Students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. This comprehensive examination will normally accompany the thesis defense. Students completing the thesis option must include 6 hours of 210:299 on the program of study. Students completing the **non-thesis** option are required to meet the individual specialty area's requirements for the non-thesis option. These are cited within the description for each specialty area.

The student must complete the Curriculum and Instruction core, the professional core, required courses in the specialty area, and electives for a specified number of semester hours in the program of study.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core (Core A):

Educational Psychology: 200:214 or  
Social Foundations: 260:234 .....3 hours  
Measurement and Research: 250:205 .....3 hours

Required Curriculum and Instruction core:

Curriculum and Instruction: 210:201 .....3 hours  
Literacy Education: 230:212 .....3 hours  
Instructional Technology: 240:232 .....3 hours  
15 hours

### Curriculum and Instruction: Early Childhood Education

The degree program in this specialty area focus requires a **minimum of 30 or 33 semester hours.**

The program is designed to improve the student's competence in teaching young children and in providing leadership for program development and implementation.

Students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. The examination will be comprehensive in nature and will normally accompany the thesis defense. Students completing the thesis option must include 6 hours of 210:299 on the program of study. Students completing the **non-thesis** option are required to complete (1) the department graduate research requirement and (2) a performance-based and/or standard-based measure demonstrating student competency upon completion of the program.

The program may be extended by students wishing to complete the

State of Iowa licensure endorsement for Early Childhood Education.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core and Curriculum and

Instruction core .....15 hours  
Specialty area:

Curriculum and Instruction: 210:155; 210:214; 210:220;  
210:221 .....12 hours  
Curriculum and Instruction: 210:299 .....3 or 6 hours  
Thesis option (6 hrs.)  
Non-thesis option (3 hrs.)

30 or 33 hours

### Curriculum and Instruction: Education of the Gifted

The degree program in this specialty area focus requires a **minimum of 32 or 37 semester hours.**

The program is designed to improve the student's competence in teaching gifted and talented children and youth and in providing leadership for program development and implementation.

Students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. This comprehensive examination will normally accompany the thesis defense. Students completing the thesis option must include 6 hours of 210:299 on the program of study. Students completing the **non-thesis** option are required to complete (1) the department graduate research requirement and (2) a performance-based and/or standard-based portfolio and oral comprehensive examination.

The program may be extended by students wishing to complete the State of Iowa licensure endorsement for Education of the Gifted.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core and Curriculum and

Instruction core .....15 hours  
Specialty area:

Curriculum and Instruction: 210:254; 210:255 .....6 hours  
Curriculum and Instruction: 210:289 .....1 hour  
Curriculum and Instruction: 210:299 .....1 or 6 hours  
Thesis option (6 hrs.)  
Non-thesis option (1 hr.)  
Measurement and Research: 250:282 .....3 hours  
Approved electives .....1 or 6 hours  
Thesis option (1 hr.)  
Non-thesis option (6 hrs.)

32 or 37 hours

### Curriculum and Instruction: Elementary Education

The degree program in this specialty area focus requires a **minimum of 30 semester hours.**



## Program Requirements Curriculum and Instruction

The program is designed to improve the student's effectiveness as a classroom teacher, instructional leader, and curriculum developer.

Students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. This comprehensive examination will normally accompany the thesis defense. Students on the thesis option must include 6 hours of 210:299 on the program of study. Students completing the **non-thesis** option are required to complete the department graduate research requirement.

The program may be extended by students wishing to complete the State of Iowa licensure endorsement for Elementary Education.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core and Curriculum and Instruction core .....	15 hours
Specialty Area:	
Curriculum and Instruction: 210:242; 210:243; 210:289 .....	8 hours
Curriculum and Instruction: 210:299 .....	1-3 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (1-3 hrs.)	
Approved electives .....	<u>1-6 hours</u>
	30 hours

### Curriculum and Instruction: Literacy Education

The degree program in this specialty area focus requires a **minimum of 33 semester hours**.

The program is designed to develop and extend the expertise of educators in both leadership and classroom positions who wish to specialize in the area of literacy education. Students examine theories, programs and practices in the teaching of literacy, the evaluation of literacy development and the integration of literacy across curricular areas.

In addition to the university requirements for admission to graduate study, admission to this program includes the following requirements: 1) two recommendations from professional educators, and 2) satisfactory completion of writing examination. Preference may be given to applications with academic background and/or professional experience in education.

Students completing the **thesis** option are required to pass an oral comprehensive examination prepared and administered by the thesis committee. This comprehensive examination will normally accompany the thesis defense. Students on the thesis option must include 6 hours of 230:299 on the program of study. Students completing the **non-thesis** option are required to complete (1) the department graduate research requirement and (2) a performance-based and/or standard-based measure demonstrating student competency upon completion of the program.

The program may be extended by students wishing to complete any of the four State of Iowa licensure endorsements: K-8 Reading, Reading Specialist, English/Language Arts K-8, or Secondary Reading.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core and Curriculum and Instruction core .....	15 hours
Specialty Area:	
Literacy Education: 230:238; 230:239; 230:240; 230:245 .....	12 hours
Literacy Education: 230:299 .....	3 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (3 hrs.)	
Approved electives .....	0 or 3 hours
Thesis option (0 hrs.)	
Non-thesis option (3 hrs.)	
	<u>33 hours</u>

### Curriculum and Instruction: Middle Level Education

The degree program in this specialty area focus requires a **minimum of 32 or 35 semester hours**.

The program is designed to increase competence in working with young adolescents. It can be varied (or extended) to fit the student's background and goals. This master's degree is most appropriate for students who currently hold an elementary or secondary teaching license.

Students completing the **thesis** option are required to pass an oral examination prepared and administered by the thesis committee. The examination will be comprehensive in nature and will normally accompany the thesis defense. Students on the thesis option must include 6 hours of 210:299 on the program of study. Students completing the **non-thesis** option are required to complete the departmental graduate research requirement. In lieu of a comprehensive examination, all students must complete a comprehensive portfolio during their final semester of course work that meets the requirements of the division faculty.

The program may be extended by students wishing to complete the State of Iowa licensure endorsement for Middle Level Education.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Curriculum and Instruction for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required professional core and Curriculum and Instruction core .....	15 hours
Specialty area:	
Educational Psychology: 200:152 .....	3 hours
Curriculum and Instruction: 210:135; 210:270 .....	6 hours
Curriculum and Instruction: 210:299 .....	3 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (3 hrs.)	
Approved electives in subject area specialties .....	<u>5 hours</u>
	32 or 35 hours

### Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**.

## Program Requirements

### Curriculum and Instruction/Design, Textiles, Gerontology & Family Studies

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx). For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73 and also visit [www.uni.edu/coe/ci/doctoral.html](http://www.uni.edu/coe/ci/doctoral.html).

The Graduate Record Examination (General Test) **is** required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations, fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, *all* students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Curriculum and Instruction** intensive study area is designed to prepare scholar-practitioners to plan, implement, evaluate, and supervise educational programs for children and adult learners. (For more information, contact the Head, Department of Curriculum and Instruction.)

#### I. Professional Common Core (15 hours)

**Education Foundations**.....3 hours

Interdepartmental Education: 190:301.

##### Research:

Interdepartmental Education: 190:303; 190:305;

190:307.....9 hours

Measurement and Research: One of the following—

250:270; 250:300; 250:301; 250:310.....3 hours

#### II. Advanced Professional Studies .....38 hours

This is the component of the program that relates to and supports the student's professional career goal. Students will **elect one of six areas** of intensive study. Specific course requirements for individual students will depend on faculty requirements and student background, interests, and goals. The only program limitations on work in this component are that the course work (including seminars, practica, independent readings, and independent research) be at the 200- or 300-level except as allowed by the general regulations (pages 74-75), and that there be a minimum of 6 hours outside of the elected area of intensive study. The six areas of intensive study are:

Community Health Education

Curriculum and Instruction

Educational Leadership

Leisure, Youth and Human Services

Rehabilitation Studies

Special Education

#### III. Dissertation (7 hours)

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

**Doctoral Seminar:** 190:389..... 1 hour

**Dissertation Research:** 190:399.....6 hours  
60 hours

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following certificate, contact the Department of Curriculum and Instruction or the Office of the Registrar, which serves as the centralized registry.

### Instructional Technology Facilitator Certificate

Required:

Instructional Technology: 240:131; 240:153; 240:170;

240:232; 240:237; 240:260 .....18 hours

18 hours

## Department of Design, Textiles, Gerontology, & Family Studies

### (College of Social and Behavioral Sciences)

[www.uni.edu/dtgfs](http://www.uni.edu/dtgfs)

H. Barnes, Head. B. Bass, G. Betrabet Gulwadi, E. Eshbaugh, W. Fleming, P. Gross, G. Gute, A. Lynch, J. Moorman, M. Strauss.

The Department of Design, Textiles, Gerontology, & Family Studies offers the following undergraduate programs. Specific requirements for these programs are listed within this Department of Design, Textiles, Gerontology, & Family Studies section in the following order:

#### Undergraduate Majors (B.A.)

Family Services

Interior Design

Textile and Apparel

Gerontology

#### Minors

Family Studies

Gerontology

Textile and Apparel

## Bachelor of Arts Degree Programs

### Family Services Major

The Family Services major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Family Studies: 31F:010; 31F:020; 31F:030 or 3 hours  
social science research methods such as 400:101,

450:185, 48C:080, 48C:180, or 980:108; 31F:055* or another developmental course such as 200:030 or 400:120*; 31F:057; 31F:060; 31F:178 .....	21 hours
Choose course(s) from each of the following groups:	
Group 1: Families in Context (choose 1) .....	3 hours
Family Studies: 31F:077; 31F:162; 31F:177. American Politics: 942:142.	
Group 2: Relationship Dynamics (choose 2) .....	6 hours
Family Studies: 31F:054; 31F:145; 31F:150; 31F:153; 31F:155.	
Group 3: Professional Applications (choose 2) .....	6 hours
Family Studies: 31F:157; 31F:160; 31F:190; 31F:191.	
Group 4: Diversity (choose 1) .....	3 hours
Psychology: 400:060; 400:167. Health Promotion and Education: 410:147; 410:167. Social Work: 450:045; 450:142; 450:163. Sociology: 980:045; 980:167.	
Senior Experience (choose Option A or B) .....	9 hours
Option A: 31F:195 Internship.	
Option B: 9 additional hours from Groups 1, 2, and/or 3.	
	45 hours

\*31F:055 has a prerequisite of 400:001 or consent of instructor; 400:120 has a prerequisite of 400:001.

A minimum of 2.40 cumulative grade point average (GPA) and department approval is required for declaration of this major. Procedures for approval are available in the departmental office. Students must maintain at least a 2.40 GPA and have department approval in order to register for 31F:157, 31F:190, 31F:195, and to graduate. Students must achieve a minimum of C- in all courses required for the major.

## Interior Design Major

The Interior Design major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Admission to the University of Northern Iowa with an intended Interior Design major does not guarantee placement in the major due to the limited number of spaces available in the studio facilities.

Students majoring in Interior Design must satisfy the admission requirements including GPA, portfolio review, interview and the completion of specified courses before they can officially declare the major. A copy of the Admission Policy may be obtained from the Department of Design, Textiles, Gerontology, & Family Studies office in Latham Hall. Prior to completion of the admission requirements, students may sign an intent to major in Interior Design and be classified as a prospective (pre) major.

### Required:

Design, Textiles, Gerontology, & Family Studies: 31I:061; 31I:063; 31I:064; 31I:066; 31I:067; 31I:068; 31I:075; 31I:125; 31I:126; 31I:127; 31I:128; 31I:129; 31I:164; 31I:184 (2 hrs.); 31I:195; 31T:013 .....	52 hours
Marketing: 130:101 .....	3 hours
Management: 150:080 .....	3 hours
Economics: 920:024 .....	3 hours
One of the following .....	3 hours
Accounting: 120:030.	
Marketing: 130:106; 130:150; 130:153; 130:166; 130:178.	
Management: 150:153.	
	64 hours

## Textile and Apparel Major

The Textile and Apparel major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

### Required:

Design, Textiles, Gerontology, & Family Studies: 31T:011; 31T:012; 31T:013; 31T:014; 31T:020; 31T:100; 31T:114; 31T:115; 31T:116; 31T:119; 31T:122; 31T:123; 31T:124; 31T:185; 31T:195 .....	45 hours
Design, Textiles, Gerontology, & Family Studies: 31T:015 or 31T:121 or 31T:184 (3 hrs.) .....	3 hours
Marketing: 130:101 .....	3 hours
Economics: 920:024 .....	3 hours
Two courses from the following .....	6 hours
Accounting: 120:030.	
Marketing: 130:106; 130:166; 130:191.	
Management: 150:153.	
	60 hours

## Gerontology Major

The Gerontology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

It is suggested students take 400:001, 450:041, and 980:001 as their Social Sciences area Liberal Arts Core, as these are prerequisites for several of the required courses in this major.

This interdisciplinary program is offered jointly by the College of Social and Behavioral Sciences, the College of Education, and the College of Humanities and Fine Arts. It is administered through the Department of Design, Textiles, Gerontology, & Family Studies and under the supervision of the Gerontology Advisory Committee.

## Social Sciences Track

### Required:

Research Methods.....	3-4 hours
Minimum of 3 hours of research methods from: Design, Textiles, Gerontology, & Family Studies: 31F:030. Leisure, Youth and Human Services: 430:169. Psychology: 400:101. Sociology: 980:108.	
Gerontology core: 9 hours from the following.....	9 hours
*Design, Textiles, Gerontology, & Family Studies: 31F:150.	
*Psychology: 400:173.	
*Health Promotion and Education: 410:125.	
*Sociology: 980:125.	

In consultation with your advisor, choose a total of 21 credits from the following 4 groups, with at least 3 credits required from each group.....21 hours

### Group I - Humanities and Aging (3-12 hours)

Religion: 640:194.
World Religions/Philosophy: 640:194 or 650:194 or CAP:194; 650:050 or 650:142.
History: 961:150.

### Group II - Behavioral/Social Sciences and Aging (3-12 hours)

Gerontology, & Family Studies: 31F:055; 31F:150*.
Psychology: 400:120; 400:173*.
Sociology: 980:118; 980:125*.

## Program Requirements

### Design, Textiles, Gerontology & Family Studies

Anthropology: 990:152.

#### Group III - Physical/Health Sciences and Aging (3-12 hours)

Gerontology, & Family Studies: 31F:057.

Health Promotion and Education: 410:125\*.

World Religions/Philosophy: 640:173 or 650:173 or CAP:173.

#### Group IV - Related Social Sciences and Aging (3-12 hours)

Gerontology, & Family Studies: 31F:077; 31F:162.

Social Work: 450:173.

\*Courses may be used to meet requirements in either Gerontology Core or Curriculum Cluster, but not both.

Internship .....4 hours

Senior Seminar, Gerontology: 31G:193 (1 hr.)

Design, Textiles, Gerontology: 31G:195, Section 1 (3 hrs.)

OR

Health Promotion and Education: 410:168 (3 hrs.)

OR

Sociology: 980:184 (3 hrs.)

**Total required in Social Sciences Track** 37 hours\*\*

\*\*Due to prerequisites for courses in Group IV, the total number of credit hours required to complete this major may be 40.

### Long Term Care Track

Required:

Business Management, Accounting, Business.....10 hours

Select at least 3 credits:

Accounting: 120:030; 120:031.

Select at least 3 credits:

Management: 150:100; 150:101; 150:102; 150:105; 150:153; 150:166.

Gerontology core: 9 hours from the following.....9 hours

Gerontology, & Family Studies: 31F:150.

Psychology: 400:173.

Health Promotion and Education: 410:125.

Sociology: 980:125.

Health Care Administration .....14 hours

Gerontology, & Family Studies: 31G:170.

Social Work: 450:172; 450:173.

Health Promotion and Education: 410:186 (Guided Independent Study course

*Medical Terminology for the Medical Professions*, 2 hrs.).

World Religions/Philosophy: 640:173 or 650:173 or CAP:173.

Electives approved by advisor .....5 hours

Internship .....4-10 hours\*

Students complete the seminar and either internship:

Senior Seminar Design, Textiles, Gerontology, & Family Studies: 31G:193 (1 hr.) or 410:193 (1 hr.).

Design, Textiles, Gerontology, & Family Studies: 31G:195, section 2 (3-9 hrs.)

OR

Health Promotion and Education: 410:168 (3 or 6 hrs.)

OR

Internship Design, Textiles, Gerontology, & Family Studies: 31G:195, section 2 (3 hrs.)

OR

Health Promotion and Education: 410:168 (3 hrs.)

OR

Sociology: 980:184 (3 hrs.)

**Total required in Long Term Track** 42 hours\*

\*Students choosing to take the State of Iowa licensing exam may need to complete up to 10 credit hours of internship, for a total of 48 hours for the Long Term Care track.

## Minors

### Family Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Family Studies: 31F:020; 31F:030 or 3 hours of social science research methods such as 400:101, 450:185, 48C:080, 48C:180, or 980:108; 31F:055 or

200:030 or 400:120; 31F:057 .....12 hours

Three courses from the following.....9 hours

Family Studies: 31F:010; 31F:054; 31F:077;

31F:145; 31F:150; 31F:153; 31F:155; 31F:157;

31F:162; 31F:177; 31F:184 (3 hrs.)

21 hours

### Gerontology Minor

Gerontology core: select two of the following Gerontology

core courses.....6 hours

Design, Textiles, Gerontology, & Family Studies: 31F:150\*.

Psychology: 400:173\*.

Health Promotion and Education: 410:125.

Sociology: 980:125\*.

Electives in Social Sciences: select two of the following Social

Science courses.....6 hours

Design, Textiles, Gerontology, & Family Studies: 31F:055\*

OR

Psychology: 400:120\*.

Design, Textiles, Gerontology, & Family Studies:

31F:077 or 31F:162\*.

Social Work: 450:173\*.

Sociology: 980:118.

Anthropology: 990:152\*.

Electives in Humanities: select two of the following

Humanities courses .....6 hours

Philosophy: 650:050 or 650:142\*.

World Religions/Philosophy: 640/650/CAP:173;

640/650/CAP:194.

18 hours

\*Prerequisites for these courses are as follows:

Prerequisite for 31F:150 (31F:020; 200:030 or 31F:055 or 400:120; 3 hours social science research methods).

Prerequisite for 400:120 and 400:173 (400:001 or equivalent). 400:001 may be used to satisfy Category 5B of the Liberal Arts Core.

Prerequisite for 980:125 (980:001). 980:001 may be used to satisfy Category 5A of the Liberal Arts Core.

Prerequisite for 31F:055 (400:001 or consent of instructor). 400:001 may be used to satisfy Category 5B of the Liberal Arts Core.

Prerequisite for 31F:162 (31F:020)

Prerequisite for 450:173 (450:041). 450:041 may be used to satisfy Category 5C of the Liberal Arts Core.

Prerequisite for 990:152 (990:010). 990:010 may be used to satisfy Category 4A of the Liberal Arts Core.

Prerequisite for 650:142 (one philosophy course)

## Textile and Apparel Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

This minor is offered by the Textile and Apparel program housed in the Department of Design, Textiles, Gerontology, & Family Studies.

Required:

Textile and Apparel: 31T:012; 31T:013; 31T:014;	
31T:020.....	12 hours
Electives from the following .....	6 hours
Textile and Apparel: 31T:011; 31T:015; 31T:114;	
31T:115; 31T:116; 31T:119; 31T:121; 31T:122;	
31T:123; 31T:124; 31T:184.	
	18 hours

## Department of Earth Science

### (College of Natural Sciences)

**www.earth.uni.edu**

*J. Walters, Head. T. Cooney, A. Czarnetzki, K. De Nault, J. Gale, J. Groves, C. Heinzel, T. Hockey, M. Iqbal, S. Morgan.*

The Department of Earth Science offers the following undergraduate programs. Specific requirements for these programs are listed within this Department of Earth Science section in the following order:

#### Undergraduate Majors (B.S.)

Air Quality

Geology

#### Undergraduate Majors (B.A.)

Earth Science

Earth Science-Interpretive Naturalist Emphasis

Earth Science-Teaching

Geology With Environmental Science Emphasis

Geology

#### Minors

Astronomy

Earth Science

Earth Science-Teaching

Geology

Meteorology

The Department of Earth Science encompasses five curricular disciplines: Earth Science, Geology, Meteorology, Astronomy, and Earth Science Education. Major programs are offered in two baccalaureate areas: the Bachelor of Science and the Bachelor of Arts.

The B.S. degree in Air Quality prepares students for careers in governmental regulation of air quality, industrial compliance with the Clean Air Act, and private consulting. The B.S. degree in Geology is intended for students who wish to become professional geologists and who plan to enter graduate school in geology. This curriculum meets the standards of the American Institute of Professional Geologists. The B.A. in Geology provides a wider choice of electives than the B.S. in Geology and prepares students for additional study in selected fields of geology, paleontology, and related earth science areas. Students interested in preparing for an environmentally oriented geoscience career can elect to complete the B.A. in Geology with Environmental Science Emphasis. The B.A. degree in Earth Science is designed as a broad liberal arts major that can build a strong foundation for a variety of career plans. It also provides supportive background and additional career options as a second major for students majoring in other disciplines such as

mathematics, computer science, industrial technology, anthropology, geography, biology, chemistry or related areas. Students wishing to work as professional interpreters with park systems, nature centers, museums, and other areas requiring field skills in the natural sciences and natural history communication skills are advised to select the B.A. in Earth Science with Interpretive Naturalist Emphasis. The B.A. degree in Earth Science-Teaching is designed to prepare secondary Earth Science teachers.

## Bachelor of Science Degree Programs

### Air Quality Major

The B.S. Air Quality major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Chemistry and Biochemistry: 860:132.....	4 hours
Earth Science: 870:021; 870:121; 870:122; 870:123; 870:124;	
870:137 or 870:195 (3 hrs.); 870:177; 870:180 (2 hrs.)	27 hours
Geography: 970:173.....	3 hours
Environmental Science: 830:166.....	3 hours

Required cognate areas:

Mathematics: 800:060; 800:061; 800:072.....	11 hours
Computer Science: 810:035 or 810:036.....	3 hours
Chemistry and Biochemistry: 860:044 and 860:048,	
or 860:070 .....	5-8 hours
Physics: 880:054 and 880:056 and one 100-level cognate*	
elective, or 880:130 and 880:131.....	8-11 hours
	64-70 hours

\*A 100-level course in a cognate area is required unless met by taking 880:131. Cognate areas for the B.S. degree program in air quality are understood to include chemistry and biochemistry, computer science, geography, mathematics, and physics. Specific cognate courses must be approved by the advisor and department head.

### Geology Major

The B.S. Geology major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Geology: 870:031; 870:035; 870:125; 870:129; 870:130; 870:131;	
870:135; 870:136; 870:141; 870:142 or 870:143;	
870:180 (2 hrs.); Summer Field Course (6 hrs.)*.....	43 hours

Required cognate areas:

Mathematics: 800:060; 800:061.....	8 hours
Mathematics/Computer Science: one of the following courses:	
800:072; 800:092; 800:172; 810:030; 810:035 .....	3 hours
Chemistry and Biochemistry: 860:044 and 860:048,	
or 860:070 .....	5-8 hours
Physics: 880:054 and 880:056 and one 100-level cognate**	
elective, or 880:130 and 880:131.....	8-11 hours
	67-73 hours

\*Summer field course requirements to be met by credit earned at a field camp approved by the department.

## Program Requirements

### Earth Science

\*\*A 100-level course in a cognate area is required unless met by taking 880:131. Cognate areas for the B.S. degree program in geology are understood to include astronomy, biology, chemistry and biochemistry, geography, mathematics, computer science, physics, meteorology, oceanography, and science. Specific cognate courses must be approved by the advisor and department head.

## Bachelor of Arts Degree Programs

### Earth Science Major

The Earth Science major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:046 or 800:060 .....	4 hours
Chemistry and Biochemistry: 860:044 or 860:061 .....	4 hours
Earth Science: 870:010*; 870:021; 870:031; 870:035 .....	15 hours
Physics: 880:054 or 880:130.....	4 hours
Electives in earth science: 100-level courses** .....	<u>18 hours</u>
	45 hours

\*870:010 must be taken for four semester hours of credit.

\*\*100-level credits in earth science must include at least one course from each of astronomy, geology, and meteorology. In addition, at least 2 hours must be from either 870:137, 870:179, 870:180, 870:195, or another appropriate experiential learning course approved by the student's advisor and the department head.

### Earth Science Major–Interpretive Naturalist Emphasis

The Earth Science major Interpretive Naturalist emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program is designed to prepare students with an earth science background to work as professional interpreters with park systems, nature centers, museums, and other areas requiring field skills and communication skills in the natural sciences and natural history. The B.A. Earth Science degree provides students a sound subject matter foundation in geology, meteorology, and astronomy. The emphasis enhances this background with biology and interpretive techniques.

Required:

Mathematics: 800:046 or 800:060 .....	4 hours
Chemistry and Biochemistry: 860:044 .....	4 hours
Earth Science: 870:010*; 870:021; 870:031; 870:035 .....	15 hours
Biology: 840:051; 840:052; 840:100.....	11 hours
Physics: 880:054 .....	4 hours
Biology Natural History Interpretation Minor (see page 94) .....	18-20 hours
Electives in earth science: 100-level** .....	<u>11 hours</u>
	67-69 hours

\*870:010 must be taken for four semester hours of credit.

\*\*Electives must include one course from each of astronomy, geology, and meteorology.

### Earth Science Major-Teaching

The Earth Science-Teaching major requires a minimum of 120-121 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51) and the following specified major requirements, plus electives to complete the minimum of 120-121 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Science and Science Education: 820:190; 820:193; 820:196...8 hours	
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070 .....	5-8 hours
Earth Science: 870:010*; 870:021; 870:022; 870:031; 870:035; 870:121 .....	20 hours
Physics: 880:054; 880:056 .....	8 hours
Electives in earth science: 100-level courses (excluding 870:186, 870:189, 870:191, 870:195, and 870:198) .....	<u>6 hours</u>
	47-50 hours

\*870:010 must be taken for four semester hours of credit.

### Geology Major With Environmental Science Emphasis

The Geology major with Environmental Science emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: one of the following courses: 800:046; 800:060; 800:072; 800:092; or 800:172.....	3-4 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070 .....	5-8 hours
Earth Science: 870:031; 870:035; 870:129; 870:130; 870:131; 870:135; 870:136.....	24 hours
Physics: 880:054 and 880:056, or 880:130 and 880:131 .....	8 hours
Economics: 920:024 .....	3 hours

Required environmental science core:

Biology: 840:051; 840:052.....	8 hours
Earth Science: 870:171.....	3 hours

Two additional environmental courses as appropriate to the student's program and approved by the advisor and department head .....

Summer field course* .....	<u>6 hours</u>
	66-72 hours

\*Summer field course requirements to be met by credit earned at field camp approved by the department.

### Geology Major

The B.A. Geology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: one of the following courses: 800:046; 800:060; 800:072; 800:092; or 800:172.....	3-4 hours
Chemistry and Biochemistry: 860:044 and 860:048, or 860:070 .....	5-8 hours

Earth Science: 870:031; 870:035; 870:129; 870:130; 870:131; 870:135; 870:136.....	24 hours
Physics: 880:054 and 880:056, or 880:130 and 880:131 .....	8 hours
Summer field course* .....	6 hours
Electives in geology (100-level).....	4 hours
	50-54 hours

\*Summer field course requirements to be met by credit earned at field camp approved by the department.  
Recommended general electives - Mathematics: 800:060; 800:061.

## Minors

### Astronomy Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061 .....	8 hours
Earth Science: 870:010*; 870:151; 870:152 or 870:153; 870:154 .....	10 hours
Physics: 880:130; 880:131 .....	8 hours
	26 hours

\*870:010 must be taken for four semester hours of credit.

### Earth Science Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required: courses in earth science .....20 hours

### Earth Science Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Chemistry and Biochemistry: 860:044 .....	4 hours
Earth Science: 870:010*; 870:021; 870:022; 870:031; 870:035 .....	16 hours
Physics: 880:054 .....	4 hours
	24 hours

Also required: a teaching major or minor in biology, chemistry, physics, or science.

Completion of this minor will satisfy the requirements of the Iowa Department of Education for Earth Science approval (effective October 1, 1988) only if the student has completed 30 semester hours in the broad area of science.

\*870:010 must be taken for four semester hours of credit.

### Geology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Chemistry and Biochemistry: 860:044 .....	4 hours
Earth Science: 870:031; 870:035; 870:125 or 870:136; 870:129 or 870:141; 870:130; 870:131; 4-5 hours of 100-level electives in geology .....	24 hours
	28 hours

### Meteorology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060 .....	4 hours
Chemistry and Biochemistry: 860:044 .....	4 hours
Earth Science: 870:021; 870:121; 870:122; 870:123 .....	14 hours
Physics: 880:054 .....	4 hours
Geography: 970:127 or 970:164 .....	3 hours
	29 hours

Recommended general electives - Mathematics: 800:061; 800:062.

## Department of Economics

### (College of Business Administration)

#### [www.cba.uni.edu/economics](http://www.cba.uni.edu/economics)

F. Abraham, Head. M. Alam, S. Amin, K. Brown, D. Hakes, H. Isakson, L. Jepsen, B. Kanago, K. McCormick, D. Surdam, B. Uyar.

The Department of Economics offers the following undergraduate programs and program certificate. Specific requirements for these programs are listed within this Department of Economics section in the following order:

#### Undergraduate Majors (B.A.)

Economics

#### Minors

Economics-Liberal Arts

Economics-Teaching

#### Program Certificate

Certificate in Community Economic Development

- To graduate with a major in economics a student must:
  - complete 920:053, 920:054, 920:103, and 920:104 with at least a C- in each course whether taken at UNI or at an institution from which transfer credit for these courses is accepted; and
  - earn a 2.50 grade point average for all 920:xxx courses taken at UNI, except 920:020, 920:024, 920:070, 920:177, and 920:179.
- 920:020 and 920:070 count toward an economics major **only** in the business emphasis and do not count toward the minor.
- 920:024 does not count toward the economics major or minor.
- 920:053 and 920:054 are minimum prerequisites for all 100g courses.
- It is recommended that 920:103 and 920:104 be taken before other advanced courses in economics.
- Not more than one emphasis may be declared in economics.

The Economics Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Student Advising and Career Services Office (CBB 321B) in the College of Business Administration.

## Bachelor of Arts Degree Programs

### Economics Major

The Economics major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages

## Program Requirements

### Economics

55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by italics.

Required:

Economics: 920:053; 920:054; 920:103; 920:104; 920:169*; 920:181 .....	18 hours
Emphasis requirements (students choose one area of emphasis) .....	18-39 hours 36-57 hours

#### Emphases:

1. **General Economics** (18 hours)  
Electives: 100-level economics courses.....18 hours
2. **Quantitative Techniques** (36 hours)  
Required:  
Economics: 920:168.....3 hours  
Mathematics: 800:060; 800:061; 800:062; 800:076;  
800:140.....18 hours  
Electives: 100-level economics courses  
(except 920:177) .....15 hours  
36 hours

3. **Business Analysis** (39 hours)  
Students who select this emphasis must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Student Advising and Career Services Office in the College of Business Administration or at [www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm](http://www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm). Prior to completion of the admission requirements, students may sign an intent to major in Economics/Business Analysis and be classified as a prospective (pre)major. Pre-Economics/Business Analysis majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Economics/Business Analysis majors *may* declare a double major, and/or major and minor within the College of Business Administration, subject to the regulations of those CBA departments affected. Economics/Business Analysis majors minoring within the CBA must select minors designated for business majors.

To graduate with an Economics/Business Analysis major from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted as outside the College of Business Administration. A student must also complete 920:053, 920:054, 920:103, and 920:104 with at least a C- in each course whether taken at UNI or an institution from which transfer credit for these courses is accepted; must earn a 2.20 cumulative grade point average at UNI; must earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI; and earn a 2.50 or better, in all 920:xxx courses taken at UNI excluding 920:020, 920:024, 920:070, 920:177 and 920:179. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours

### Economics

Finance: 160:151 .....	3 hours
Economics: 920:020*; 920:070* .....	6 hours
Electives: 100-level economics courses .....	6 hours 39 hours

\*These courses require an additional prerequisite which will be met by taking 800:072, which will also satisfy Category 1C of the Liberal Arts Core.

## Minors

### Economics Minor-Liberal Arts

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Economics: 920:053; 920:054; 920:103; 920:104 .....	12 hours
Electives: 100-level economics courses (920:103 and 920:104 recommended to be taken before other advanced courses in economics) .....	6 hours 18 hours

Available to all UNI majors, except economics majors.

**Note:** 920:053 and 920:054 are prerequisites for all 100g economics courses.

### Economics Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

*Methods: 900:190; 900:191 .....	4 hours
Economics: 920:053; 920:054; 920:103; 920:104 .....	12 hours
Electives: 100-level economics courses (920:103 and 920:104 recommended to be taken before other advanced courses in economics) .....	12 hours 28 hours

\*Business Teaching majors may substitute 150:117 and 150:191 for 900:190 and 900:191.

**Note:** 920:053 and 920:054 are prerequisites for all 100g economics courses.

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of Economics or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Community Economic Development

The certificate in Community Economic Development is available to declared majors in the College of Business Administration only. The purpose of this certificate is to educate and train students to fill the need for informed economic development practitioners. For more information and to enroll in this program, students must contact the Head of Department of Economics.

Required:

Economics: 920:125*; 920:148*; 920:177** .....	9 hours
Electives .....	6 hours



Economics: 920:116\*; 920:117\*; 920:123\*  
 Political Science: 942:048; 942:132  
 Geography: 970:101; 970:121

15 hours

Prerequisites for above courses are as follows:

\* 920:053; 920:054

\*\* 920:053; 920:054; 920:125; 920:148

## Department of Educational Leadership, Counseling, and Postsecondary Education

### (College of Education)

[www.uni.edu/coe/elcpe](http://www.uni.edu/coe/elcpe)

M. Waggoner, Head. J. Bartlett, W. Callahan, D. Davis-Gage, R. Decker, D. Else, T. Gilson, L. Nebbe, N. Pace, G. Perreault, V. Robinson.

The Department of Educational Leadership, Counseling, and Postsecondary Education offers the following graduate programs and program certificates. (There are no undergraduate majors or minors in the Department of Educational Leadership, Counseling, and Postsecondary Education.) Specific requirements for these graduate programs and program certificates are listed within this Department of Educational Leadership, Counseling, and Postsecondary Education section in the following order:

#### Graduate Majors (M.A.)

Mental Health Counseling

#### Graduate Majors (M.A.E.)

Postsecondary Education: Student Affairs

Principalship

School Counseling

#### Graduate Majors (Ed.D.)

Doctor of Education: Educational Leadership intensive study area

#### Program Certificates

Advanced Studies Certificate in Educational Leadership

Emphasis: Principalship

Emphasis: Superintendency Preparation

## Master of Arts Degree Program

### Major in Mental Health Counseling

This program is designed for those who intend to work in non-school settings such as community and mental health centers, counseling centers, and employee assistance programs. Specific areas of interest and the setting in which the person plans to work will determine the appropriate electives in a specialty (emphasis) area.

This major is available on the **thesis** and **non-thesis** options. A **minimum of 66 semester hours** is required for the **thesis** option which includes 6 hours of 290:299, and a **minimum of 60 semester hours** for the **non-thesis** option. **A minimum of 20 hours of 200-level course work is required.**

Students completing this program must pass a written comprehensive examination, successfully complete a research paper, and fulfill program-specific exit requirements. Those students electing a thesis option must, in addition, successfully complete a final oral comprehensive examination.

The Graduate Record Examination (General Test) **is not** required

for admission to the program.

Program requirements and detailed information on the major, including admission policies and procedures, should be obtained from the Department of Educational Leadership, Counseling, and Postsecondary Education. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Educational Psychology: 200:235 .....3 hours

Measurement and Research: 250:205 .....3 hours

Counseling: 290:103; 290:105; 290:205; 290:220; 290:225;

290:226; 290:227; 290:228; 290:241; 290:250;

290:254; 290:256 .....36 hours

Psychology: 400:142 .....3 hours

Required Practicum and Internship Counseling:

290:290 (3 hrs.); 290:291 (6 hrs.) .....9 hours

Electives: a minimum of 6 hours, in a specialty (emphasis) area,

selected in consultation with advisor .....6 hours

60 hours

#### Thesis Option:

Research: 290:299 .....6 hours

66 hours

## Master of Arts in Education Degree Programs

### Major in Postsecondary Education: Student Affairs

This major is designed to prepare an individual for a career in the administration of student affairs programs in college and university settings. This major is available on the **thesis** and **non-thesis** options. The **thesis** option requires a **minimum of 48 semester hours**, and the **non-thesis** option requires a **minimum of 44 semester hours**. **A minimum of thirty-two (32) hours of 200-level course work is required for the thesis option. A minimum of thirty (30) hours of 200-level course work is required for the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Leadership, Counseling, and Postsecondary Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required professional core:

Educational Psychology: 200:214 or 200:235 or

Social Foundations: 260:234 .....3 hours

Measurement and Research: 250:205 .....3 hours

Postsecondary education core:

Postsecondary Education: Student Affairs: 170:218;

170:222; 170:231; 170:260; 170:264; 170:266;

170:270 .....21 hours

170:289 Seminar .....3 hours

170:290 Practicum (two are required for 6 hrs.)\* .....6 hours

170:299 Research .....2 or 6 hours

Thesis option (6 hrs.)

Non-thesis option (2 hrs.)

Electives may include, but are not limited to, the following .....6 hours

Management: 150:130.

Postsecondary Education: Student Affairs: 170:230; 170:250;

## Program Requirements

### Educational Leadership, Counseling, and Postsecondary Education

170:256; 170:285; 170:291.  
 Education, Interdepartmental: 190:305.  
 Educational Psychology: 200:214.  
 Measurement and Research: 250:180; 250:181; 250:300.  
 Social Foundations: 260:234.  
 Counseling: 290:105; 290:220; 290:225; 290:256.  
 Psychology: 400:157; 400:158.  
 Communication: 48C:151; 48C:153.

Thesis option 48 hours

Non-thesis option 44 hours

**\*Note:** Upon advisement, some students may substitute course work for practicum. A license to teach is not required for this major.

## Major in Principalship

This major is available on the **thesis** and **non-thesis** options. A **minimum of 43 semester hours** is required on the thesis option; a **minimum of 37 hours** is required on the non-thesis option. **A minimum of 32 hours of 200-level course work, including 6 hours of 270:299, is required for the thesis option. A minimum of 32 hours of 200-level course work is required for the non-thesis option.**

Successful completion of a final oral comprehensive examination is required for the thesis option. The student must complete the usual degree and licensure/endorsement requirements and must complete a minimum of one year of successful teaching appropriate to the major prior to graduation. For endorsement the student must have three years of teaching experience at either the elementary or secondary level. This program is offered to cohort groups of 20-25 students on and off campus over the ICN, through the Web, and in face-to-face instructional sessions. This program will require the student to participate within the cohort group for a period of two (UEN) or three years. New cohort groups start each year at the beginning of the fall semester.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Leadership, Counseling, and Postsecondary Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required program courses:

Educational Psychology: 200:116; 200:1xxg (1 hr.) or  
 200:2xx (1 hr.) or 200:214 or 200:232 or  
 Social Foundations: 260:234 .....3 hours  
 Special Education: 220:260 .....3 hours  
 Measurement and Research: 250:205 .....3 hours  
 Additional educational leadership courses:  
 Educational Leadership: 270:206; 270:232; 270:245;  
 270:247; 270:249; 270:282; 270:284.....19 hours  
 Internship.....9 hours  
 Educational Leadership: 270:291 (5 hrs.);  
 270:292 (4 hrs.)

37 hours

### Thesis Option

Research: 270:299..... 6 hours  
 43 hours

## Major in School Counseling

This program is designed for those who intend to work as counselors in school settings. A teaching certificate and teaching experience are desirable but not required in order to become licensed.

This major is available on the **thesis** and **non-thesis** options. For students who have a teaching degree, a **minimum of 60 semester hours** is required for the **thesis** option which includes 6 hours of 290:299, and a **minimum of 54 semester hours** for the **non-thesis** option. For students without a teaching degree, a **minimum of 66 semester hours** is required for the **thesis** option which includes 6 hours of 290:299, and a **minimum of 60 semester hours** for the **non-thesis** option. **A minimum of 18 hours of 200-level course work is required.**

Students completing this program must pass a written comprehensive examination, successfully complete a research paper, and fulfill program-specific exit requirements. The thesis option requires successful completion of a final oral comprehensive examination, and the non-thesis option requires successful completion of a written comprehensive examination.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Program requirements and detailed information on the major, including admission policies and procedures, should be obtained from the Department of Educational Leadership, Counseling, and Postsecondary Education. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

### For students with a teaching degree:

Required:

Educational Psychology: 200:214; 200:235 .....6 hours  
 Measurement and Research: 250:205 .....3 hours  
 Counseling: 290:103; 290:105; 290:210; 290:220;  
 290:225; 290:226; 290:227; 290:228; 290:250;  
 290:254; 290:256; 290:262 .....36 hours

Required practicum and internship:

Counseling: 290:290 (3 hrs.); 290:291 (6 hrs.) ..... 9 hours  
 54 hours

### Thesis Option

Research: 290:299..... 6 hours  
 60 hours

### For students without a teaching degree:

Required:

Educational Psychology: 200:128; 200:148; 200:214;  
 200:235.....10 hours  
 Measurement and Research: 250:205 .....3 hours  
 Counseling: 290:103; 290:105; 290:210; 290:220;  
 290:225; 290:226; 290:227; 290:228; 290:250;  
 290:254; 290:256; 290:262 .....36 hours  
 Special Education: 220:150 .....2 hours

Required practicum and internship:

Counseling: 290:290 (3 hrs.); 290:291 (6 hrs.) ..... 9 hours  
 60 hours

### Thesis Option

Research: 290:299..... 6 hours  
 66 hours

## Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) is required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations,

fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, *all* students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Educational Leadership** area of intensive study involves the preparation of personnel for leadership roles in PK-12 schools, postsecondary institutions, and non-school educational settings. (For more information, contact the Head, Department of Educational Leadership, Counseling, and Postsecondary Education.)

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Leadership, Counseling, and Postsecondary Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx). For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73 or visit [www.uni.edu/coe/elcpe/edlead/overview\\_edd.shtml](http://www.uni.edu/coe/elcpe/edlead/overview_edd.shtml).

## **I. Professional Common Core (15 hours)**

**Education Foundations**.....3 hours

Interdepartmental, Education: 190:301.

### **Research:**

Interdepartmental, Education: 190:303; 190:305;

190:307.....9 hours

Measurement and Research: One of the following —

250:270; 250:300; 250:301; 250:310.....3 hours

## **II. Advanced Professional Studies**.....38 hours

This is the component of the program that relates to and supports the student's professional career goal. Students will **elect one of six areas** of intensive study. Specific course requirements for individual students will depend on faculty requirements and student background, interests, and goals. The only program limitations on work in this component are that the course work (including seminars, practica, independent readings, and independent research) be at the 200- or 300-level except as allowed by the general regulations (pages 74-75), and that there be a minimum of 6 hours outside of the elected area of intensive study. The six areas of intensive study are:

Community Health Education

Curriculum and Instruction

Educational Leadership

Leisure, Youth and Human Services

Rehabilitation Studies

Special Education

## **III. Dissertation (7 hours)**

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

**Doctoral Seminar:** 190:389 ..... 1 hour

**Dissertation Research:** 190:399 .....6 hours

60 hours

## **Program Certificates**

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates contact the Department of Educational Leadership, Counseling, and Postsecondary Education or the Office of the Registrar, which serves as the centralized registry.

### **Advanced Studies Certificate in Educational Leadership**

#### **Emphasis: Principalship**

This is a post-master's program consisting of a minimum of 37 semester hours leading to the issuance of an Advanced Studies Certificate in Educational Leadership. The purpose of this program is to allow the student to broaden and sharpen her/his skills in competency areas. This is solely for the purpose of gaining endorsement in the Principalship.

The program will consist of a minimum of 37 semester hours in graduate studies in the area of educational leadership and/or related studies.

Required:

Educational Psychology: 200:116; 200:1xxg (1 hr.) or

200:2xx (1 hr.) or 200:232; or 200:214; **and**

Measurement and Research: 250:205 .....6 hours

Special Education: 220:260 .....3 hours

Educational Leadership: 270:206; 270:232; 270:245;

270:247; 270:249; 270:282; 270:284.....19 hours

Educational Leadership internship: 270:291 (5 hrs.);

270:292 (4 hrs.) .....9 hours

37 hours

### **Emphasis: Superintendency Preparation Program**

**Sequence/core courses:**

Educational Leadership: 270:340; 270:346 .....6 hours

Educational Leadership practicum: 270:397 .....6 hours

Each core course requires three credit hours in traditional class time in order to build knowledge foundation and develop skills. Each core course also requires a three-credit hour practicum that is student-district specific, has a work product planned with and supported by the mentor, and is of sufficient magnitude to have district-wide impact.

**Sequence/key courses:**

Educational Leadership: 270:310; 270:311; 270:314 .....9 hours

Educational Leadership seminar: 270:389 .....3 hours

Educational Leadership internship: 270:391 .....9 hours

33 hours

### **Internship**

A 1-1/2 year performance based internship (a minimum of 12 months) requiring a minimum of 450 hours as an intern working in concert with the superintendent of schools (mentor) and her/

## Program Requirements

### Educational Leadership, Counseling, and Postsecondary Education/Educational Psychology and Foundations

his staff. The internship should include work intensity in governance including improvement of board/superintendent relations; alignment of curriculum, instruction, and professional development with district mission, vision, and goals; hiring, induction, retention and compensation of staff; curriculum assessment and accountability, instructional leadership with a focus on improvement of student achievement; and identification of future needs and challenges with appropriate planning. The internship should also include networking through at least one state and one national educational leadership conference. One day workshops provided by the University of Northern Iowa designed to lend knowledge and skill support during the internship will count toward completion of the internship. Workshops may include but are not limited to technology, special education law, legal research, and other high need areas as identified by students.

## Assessment

A performance based program requires evidence that Standards for School Leaders (SSL) are met. Standards must be demonstrated through work products that clearly show skill development and an expansive knowledge base.

## Department of Educational Psychology and Foundations

### (College of Education)

[www.uni.edu/coe/epf](http://www.uni.edu/coe/epf)

R. Al-Mabuk, Interim Head. T. Berg, R. Boody, K. Clopton, D. Deemer, K. East, M. Fanelli, S. Fortgang, S. Freedman, S. Gable, A. Gabriele, C. Hasel-huhn, J. Henning, M. Heston, E. Joram, K. Knesting, B. Reppas, R. Scott, J. Smith, L. Upham, B. Wilson.

The Department of Educational Psychology and Foundations offers the following graduate programs. (There are no undergraduate majors or minors in the Department of Educational Psychology and Foundations.) The specific requirements for these graduate programs are listed within this Department of Educational Psychology and Foundations section in the following order:

#### Graduate Majors (M.A.E.)

Educational Psychology

Educational Psychology: Professional Development for Teachers

#### Graduate Major (Ed.S.)

Specialist in Education: School Psychology

## Master of Arts in Education Degree Programs

### Major in Educational Psychology

This major is designed for 1) students planning further graduate studies in educational or school psychology; 2) persons with work experience as teachers, instructors or trainers in schools, business, or human service agencies who are seeking further professional development.

This major is available on the **thesis** and **non-thesis** options. A **minimum of 36 semester hours** is required for the **thesis** option and a **minimum of 33 semester hours** for the **non-thesis** option. A minimum of 15 hours 200-level course work is required for the thesis option. **A minimum of 12 hours 200-level course work is required for the non-thesis option.**

The Graduate Record Examination (General Test) is required for

admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Psychology and Foundations for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required professional core:

Educational Psychology: 200:214 .....3 hours

Measurement and Research: 250:205 .....3 hours

Educational Psychology: 200:140 or

Social Foundations: 260:234 (as approved by advisor) .....3 hours

Educational Psychology emphasis: completion

of at least 15 hours (advisor approved) in

**one of the three emphases listed below** .....15 hours

Professional studies..... 3 or 6 hours

Thesis option: 6 hrs. of 200:299.

Non-thesis option: 3 hrs. from 200:285, 200:290, 200:299.

Electives: a minimum of 6 hours .....6 hours

Electives will be selected in consultation with advisor

and approval of the graduate coordinator.

Thesis option 36 hours

Non-thesis option 33 hours

#### Development and Learning Emphasis:

Educational Psychology: 200:235 or (200:116 and 200:285);

200:220; 200:224.

Measurement and Research: 250:180.

#### Research and Evaluation Emphasis:

Measurement and Research: 250:180; 250:181; 250:281; 3 hours in

Development and Learning Emphasis; and one course from

the following: 190:305; 250:270; 250:300; 250:301.

#### Context and Techniques of Assessment Emphasis:

Educational Psychology: 200:240; 200:280; 200:286; 200:289.

Special Education: 220:260.

Measurement and Research: 250:281; 250:282; 250:283; 250:284.

## Major in Educational Psychology: Professional Development for Teachers

This degree program is specially designed to fulfill the professional development needs of experienced teachers. The intent of the program is to enable participants to increase their knowledge base in content areas or to develop expertise in new content areas while sharpening their understanding and skills as classroom teachers. The program seeks to provide a course of study directly tied to teaching practice, in which course selection, student learning, and required research are organized around issues and problems which teachers view as important. The degree program provides ample opportunity for exploring the relationship between theory and practice, with a focus on improving student learning. The program presents a variety of opportunities for peer collaboration, development of strategies for implementing innovations in classroom practice, and thoughtful analysis of contemporary issues and problems facing teachers.

This degree program invites participation from early childhood, elementary, middle school, and high school teachers. This major is available on the **thesis** and **non-thesis** options. A **minimum of 36 semester hours** is required for the **thesis** option and a **minimum of 33 semester hours** for the **non-thesis** option. The thesis or research paper is expected to explore a topic that will improve classroom practice and student learning. **A minimum of 15 hours of 200-level course work is required for the thesis option. A minimum of 12 hours of 200-level course work is required for the non-thesis option.**

Successful completion of a final oral comprehensive examination is

required for **both the thesis and non-thesis options**.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Psychology and Foundations for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required professional core:

Educational Psychology: 200:214*	3 hours
Measurement and Research: 250:205	3 hours
Social Foundations: 260:234*	3 hours
Research: xxx:299	3 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (3 hrs.)	
A minimum of 8-12 hours from each of the following three professional components:	
Component I: Advanced professional course work.....	8-12 hours
Component II*: Theoretical-philosophical course work.	8-12 hours
Component III: Advanced academic course work taken from one department.....	8-12 hours
	Thesis option 36 hours
	Non-thesis option 33 hours

\*A student may use one of two common professional core courses, either 200:214 or 260:234, to fulfill 3 hours of the Component II requirements.

## Specialist in Education Degree Program

The major in School Psychology at the University of Northern Iowa leading to the Specialist in Education Degree involves breadth of preparation as well as depth in a particular field of specialization.

Course work requirements for the Specialist in Education Degree are defined in terms of a three-year graduate program, including internship and work taken on the master's degree. A **minimum of 69 semester hours** beyond the bachelor's degree is required for completing the program.

The School Psychology major is open to students who hold a master's degree from an accredited graduate school, and who meet the requirements set forth below.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Educational Psychology and Foundations for any other admission requirements and detailed information on the School Psychology major. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, program approval, candidacy, scholarship, residence, examinations, thesis, and graduation for the Specialist in Education degree see pages 72-73.

## Major in School Psychology

Admission to the Ed.S. program in School Psychology requires an earned, accredited master's degree and a prior graduate preparation equivalent to UNI's M.A.E.: General Educational Psychology degree program with an emphasis in Context and Techniques of Assessment.

The Graduate Record Examination (General Test) **is** required for admission to the program.

Students with deficiencies will be notified prior to admission. Any deficiencies in the student's background will be *added* to the student's Ed.S. program requirements.

This major is available on the **thesis** option. A student who did not complete a thesis at the master's degree level must select the thesis option to complete the Ed.S. degree.

This major is also available on the **non-thesis** option. Students who completed a thesis as part of a master's degree program may request to have the Ed.S. thesis requirement waived. At the time of admission, the student requesting a waiver will submit a copy of the master's thesis to the School Psychology Committee. The thesis will be reviewed by the School Psychology Committee to determine if the work meets Ed.S. program thesis standards. This determination will be based on 1) the relevance of the topic to the practice of school psychology, 2) whether the thesis is empirically based, and 3) whether the thesis is of such quality that it would be accepted as an Ed.S. thesis in the program. Notice of approval or nonapproval of the waiver of the Ed.S. thesis will be sent by the program coordinator to the student, the Graduate College, and the Office of the Registrar.

A student who qualifies for the non-thesis option will complete a research paper on a topic related to school psychology. Depending on the extent of the research paper, the student may earn 1-3 semester hours of research credit.

For the thesis and non-thesis options, a **minimum of 36 semester hours** is required. **A minimum of 15 hours of 200-level course work is required.** Successful completion of a final oral examination is required.

Required:

Completion of at least 9 hours selected from the following:

Educational Psychology: 200:232; 200:240;  
200:286; 200:289

Measurement and Research: 250:281; 250:282; 250:283;  
250:284; 250:286.....9 hours

Professional studies:

200:290..... 3-5 hours  
200:291.....6 hours  
200:299..... 1-6 hours

Thesis option (6 hrs.)

Non-thesis option (1-3 hrs.)

Special Education: 220:260 .....3 hours

Literacy Education: 230:238.....3 hours

Counseling & Behavior Modification: 290:254 or 400:272.....3 hours

Electives as approved by committee ..... 1-5 hours

Thesis option (1 hr.)

Non-thesis option (1-5 hrs.)

36 hours

## Department of English Language and Literature

### (College of Humanities and Fine Arts)

[www.uni.edu/english](http://www.uni.edu/english)

*J. Copeland, Head. K. Baughman, J. Davis, S. Gaies, S. Gladden, V. Gotera, D. Grant, T. Gregersen, J. Husband, M. Janopoulos, J. Klinkowitz, A. Lamberti, C. MacGillivray, A. Meier, J. Milambiling, P. Mvuyekure, A. Myles, J. O'Loughlin, N. Price, C. Roberts, S. Rochette, J. Swan, J. Swope, G. Tracey, K. Tracey.*

The Department of English Language and Literature offers the following undergraduate and graduate programs and program certificate. Specific requirements for these programs are listed within this

## Program Requirements

### English Language and Literature

Department of English Language and Literature section in the following order:

#### Undergraduate Majors (B.A.)

English  
English—Teaching  
Teaching English to Speakers of Other Languages (TESOL)  
Teaching English to Speakers of Other Languages (TESOL)—  
Teaching  
TESOL/Modern Language-Teaching (also listed in  
Department of Modern Languages)

#### Minors

Comparative Literature (also listed in Department of Modern  
Languages)  
English  
English—Teaching  
Teaching English to Speakers of Other Languages (TESOL)  
Teaching English to Speakers of Other Languages (TESOL)—  
Teaching  
Writing

#### Graduate Majors (M.A.)

English  
Teaching English to Speakers of Other Languages (TESOL)  
TESOL/Modern Languages (also listed in Department of  
Modern Languages)

#### Program Certificate

Certificate in Post-Colonial and Multicultural Literary Studies

## Bachelor of Arts Degree Programs

### English Major

The English major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

English: 620:034; 620:040; 620:042; 620:043; 620:053 .....15 hours  
One of the following .....3 hours  
English: 620:102; 620:103; 620:104; 620:105; 620:163;  
620:174; 620:175; or  
Journalism: 48J:171.

TESOL/Applied Linguistics: 630:125 or 630:130 .....3 hours

Electives in English literature, at least two courses from each  
group .....18 hours

\*Within each group, other appropriate topics may be  
offered in sections of 620:150, 620:159, 620:186,  
and 620:188.

\*Group A. Literature in English to 1800:  
620:110; 620:113; 620:116; 620:117; 620:144;  
620:147; 620:148; 620:151.

\*Group B. Literature in English since 1800:  
620:115; 620:118; 620:119; 620:120; 620:121;  
620:123; 620:124; 620:126; 620:134; 620:153;  
620:156.

\*Group C. Literary Theory, Film, Cross-Cultural:  
620:110; 620:128; 620:139; 620:142; 620:155;  
620:157; 620:158; 620:161; 620:172; 620:182;  
620:184; 620:187/CAP:187.

Electives in English language, literature or writing ..... 3 hours  
42 hours

### English Major—Teaching

The English-Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

English: 620:034; 620:040; 620:042; 620:043; 620:053 .....15 hours  
One of the following .....3 hours  
English: 620:102; 620:103; 620:104; 620:105; 620:163 or  
Journalism: 48J:171.

TESOL/Applied Linguistics: 630:125 or 630:130 .....3 hours  
One of the following .....3 hours  
TESOL/Applied Linguistics: 630:143; 630:165;  
630:190; 630:195.

Literacy Education: 230:117 .....3 hours  
Communication: 48C:001 .....3 hours  
English: 620:165; 620:190; 620:193 .....9 hours

Electives in English literature, at least one course from each  
group .....9 hours

\*Within each group, other appropriate topics may be  
offered in sections of 620:150, 620:159, 620:186,  
and 620:188.

\*Group A. Literature in English to 1800:  
620:110; 620:113; 620:116; 620:117; 620:144;  
620:147; 620:148; 620:151.

\*Group B. Literature in English since 1800:  
620:115; 620:118; 620:119; 620:120; 620:121;  
620:123; 620:124; 620:126; 620:134; 620:153;  
620:156.

\*Group C. Literary Theory, Film, Cross-Cultural:  
620:110; 620:128; 620:139; 620:142; 620:155;  
620:157; 620:158; 620:161; 620:172; 620:182;  
620:184; 620:187/CAP:187.

48 hours

**Note:** Prerequisites for student teaching in English are a grade point average of 2.50 in English major courses and a grade of C or better in 620:190.

### Teaching English to Speakers of Other Languages (TESOL) Major

The Teaching English to Speakers of Other Languages (TESOL) major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

English: literature core—at least one course from each  
group .....9 hours  
a. 620:034  
b. 620:042 or 620:053  
c. 620:040 or 620:043 or 620:053

Note: 620:053 may be used for b or c but not both.

English: one of the following: 620:103; 620:104; 620:105;  
620:193 .....3 hours

TESOL/Applied Linguistics:  
630:125 or 630:130; 630:160 or 630:163 .....6 hours  
630:154; 630:165; 630:192; 630:193; 630:194;

630:196.....	18 hours
Electives in TESOL/Applied Linguistics .....	3 hours
Electives in literature or TESOL/Applied Linguistics .....	3 hours
	<u>42 hours</u>

**Note:** International students must have achieved a TOEFL paper-based score of 600 or computer-based score of 250 or the equivalent in order to demonstrate their proficiency in English.

It is strongly recommended that native speakers of English majoring in TESOL programs demonstrate a basic competence in a foreign language either by obtaining at least a C grade in the second semester of a language course or by passing a proficiency examination.

## Teaching English to Speakers of Other Languages (TESOL) Major–Teaching

The Teaching English to Speakers of Other Languages (TESOL)-Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), the specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Student teaching at both the K-8 and 5-12 levels is required to earn the ESL K-12 endorsement on an Iowa teaching license.

Required:

English: literature core-at least one course from each group .....	9 hours
a. 620:034 .....	
b. 620:042 or 620:053 .....	
c. 620:040 or 620:043 or 620:053 .....	
Note: 620:053 may be used for b or c but not both.	
English: one of the following: 620:103; 620:104; 620:105; 620:193 .....	3 hours
TESOL/Applied Linguistics:	
630:125 or 630:130; 630:160 or 630:163 .....	6 hours
630:154; 630:165; 630:192; 630:193; 630:194; 630:196.....	18 hours
Electives in TESOL/Applied Linguistics .....	3 hours
Electives in literature or TESOL/Applied Linguistics .....	3 hours
	<u>42 hours</u>

**Note:** International students must have achieved a TOEFL paper-based score of 600 or computer-based score of 250 or the equivalent in order to demonstrate their proficiency in English.

It is strongly recommended that native speakers of English majoring in TESOL programs demonstrate a basic competence in a foreign language either by obtaining at least a C grade in the second semester of a language course or by passing a proficiency examination.

## TESOL/Modern Language Major–Teaching (Extended Program)

This major is offered cooperatively by the Department of English Language and Literature and the Department of Modern Languages, and is under the jurisdiction and supervision of the heads of these two departments.

The TESOL/Modern Language Major–Teaching requires a minimum of 134 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 134 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Student teaching at both the K-8 and 5-12 levels is required to earn

the ESL K-12 endorsement on an Iowa teaching license.

Required:

English: 620:034; one of the following - 620:103; 620:104; 620:105; 620:193 .....	6 hours
TESOL/Applied Linguistics: 630:125 or 630:130; 630:154; 630:160; 630:165; 630:192; 630:193; 630:194; 630:196.24 hours	
30 hours from one of the language emphases below .....	<u>30 hours</u>
	60 hours

## Emphases–

**French:**

Languages: 700:190.  
French: 720:011; 720:012; 720:051 (3 hrs.); 720:061 (2 hrs.); 720:101; 720:104; 720:105; 720:124 or 720:125; 720:191 (2 hrs.); at least one French literature course; and electives in French more advanced than 720:002 and 720:004 to make 30 hours.

**German:**

Languages: 700:190.  
German: 740:011; 740:012; 740:013; 740:014; 740:101 (2-3 hrs.); 740:103 (2-3 hrs.); 740:123 or 740:150; 740:191 (2 hrs.); at least one German literature course and electives in German more advanced than 740:002 and 740:004 to make 30 hours.

**Russian:**

Languages: 700:190.  
Russian: 770:011; 770:012; 770:013; 770:014; 770:101; 770:103; 770:191 (2 hrs.); at least one Russian literature course; and electives in Russian more advanced than 770:002 and 770:004 to make 30 hours.

**Spanish:**

Languages: 700:190.  
Spanish: 780:055 (4 hrs.); 780:101; 780:104 or 780:105; 780:107 (2 hrs.) and 780:108; 780:120 or 780:123 or 780:127 or 780:152 (3 hrs.); 780:145 or 780:146 or 780:147; 780:191 (2 hrs.); and electives in Spanish more advanced than 780:002 to make 30 hours.

**Note:** International students must have achieved a TOEFL paper-based score of 600 or computer-based score of 250 or the equivalent.

## Minors

### Comparative Literature Minor

This is an interdisciplinary minor administered jointly by the Department of English Language and Literature and the Department of Modern Languages.

This minor is designed for foreign language majors and students of English literature who demonstrate a reading knowledge of a foreign language. Other students who can demonstrate a reading knowledge of a foreign language may also enroll.

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

English Language and Literature: 620:161; a 100-level course in English literature .....	6 hours
Electives: (see below*) .....	<u>12 hours</u>
	18 hours

\*For Foreign Language Majors—

Electives in 100-level foreign language literature courses (6 hours).  
English literature at the 100-level (excluding 620:144, 620:147, 620:148) - (6 hours).

## Program Requirements

### English Language and Literature

\*For Non-Foreign Language Majors—

French: 720:104; or

German: 740:104; or

Spanish: 780:104.

Electives in 100-level foreign language literature courses (9 hours).

### English Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Choose ONE option - 24 hours

#### 1. Literary Studies Option

Required:

English: 620:034; 620:042 .....6 hours

English: two of the following - 620:040, 620:043, 620:053 .....6 hours

TESOL/Applied Linguistics: 630:125 or 630:130 .....3 hours

Electives in English literature, at least one course from

each group .....9 hours

\*Within each group, other appropriate topics may be offered in sections of 620:150, 620:159, 620:186, and 620:188.

\*Group A. Literature in English to 1800:

620:110; 620:113; 620:116; 620:117; 620:144; 620:147;

620:148; 620:151.

\*Group B. Literature in English since 1800:

620:115; 620:118; 620:119; 620:120; 620:121; 620:123;

620:124; 620:126; 620:134; 620:153; 620:156.

\*Group C. Literary Theory, Film, Cross-Cultural:

620:110; 620:128; 620:139; 620:142; 620:155; 620:157;

620:158; 620:161; 620:172; 620:182; 620:184;

620:187/CAP:187.

24 hours

#### 2. Film Studies Option

Required:

English: 620:035; 620:139; 620:142; 620:182 .....12 hours

English electives — literature in English ..... 3-12 hours

Electives in film or media production from departments

other than English ..... 0-9 hours

Elective in a studio or performance course in art, music

or theatre (including interpreters theatre) ..... 0-3 hours

24 hours

### English Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

English: 620:034; 620:040; 620:042; 620:043; 620:053 .....15 hours

TESOL/Applied Linguistics: 630:130 .....3 hours

Literacy Education: 230:117 .....3 hours

Communication: 48C:001 .....3 hours

English Language and Literature: 620:165; 620:190;

620:193 .....9 hours

33 hours

A minimum cumulative grade point average of 2.40 in courses taken to complete this minor is required.

### Teaching English to Speakers of Other Languages (TESOL) Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

TESOL/Applied Linguistics: 630:125 or 630:130;

630:154; 630:160; 630:165; 630:192; 630:193;

630:194; 630:196 .....24 hours

### Teaching English to Speakers of Other Languages (TESOL) Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

TESOL/Applied Linguistics: 630:125 or 630:130;

630:154; 630:160; 630:165; 630:192; 630:193;

630:194; 630:196 .....24 hours

**Note:** To earn the ESL K-12 endorsement on an Iowa teaching license, student teaching in ESL classrooms at both the K-8 and 5-12 levels is required.

### Writing Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Choose ONE option – 18 or 24 hours

#### 1. Creative Writing Option

English:

620:031 or 620:034 .....3 hours

620:070 and/or 620:071 ..... 3-6 hours

620:108 and/or 620:109 ..... 3-6 hours

620:174 and/or 620:175 ..... 3-6 hours

Elective in a studio or performance course in art, music,

or theatre ..... 0-3 hours

Elective(s) in creative writing and/or literature, including

literature in a language other than English ..... 0-6 hours

18 hours

#### 2. Professional Writing Option

English: 620:077; 620:102; 620:104; 620:105; 620:107;

620:163; 620:177; 620:179 or 620:197 .....24 hours

## Master of Arts Degree Programs

### Major in English

The M.A. Major in English is available on the **thesis** and **non-thesis** options, and degree applicants choose one of three emphases (see below). The **thesis** option requires a **minimum of 30-36 semester hours**, depending on the emphasis chosen; the **non-thesis** option requires a **minimum of 30-33 semester hours**, depending on the emphasis chosen. **A minimum of 15 hours of 200-level course work is required for each option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

The three emphases are the following: **(1) Literature Emphasis**, minimum 30 semester hours — available on both **thesis** and **non-thesis** options; **(2) Creative Writing Emphasis**, minimum 36 semester hours — available on **thesis** option only; and **(3) Teaching English in Secondary Schools-Middle/Junior High and Senior High (TESS)**, minimum 33 semester hours — available on **non-thesis** option only.

Graduate students are required to prepare a program of study which is subject to the approval of a faculty committee. The departmental committee may require an applicant to complete course work in addition



to the minimum hours specified for the selected option and emphasis. Directions for preparing a program of study are available from the English Graduate Coordinator.

Successful completion of a final written and oral comprehensive examination is required for **both the thesis and non-thesis options**. In addition, students pursuing the **non-thesis** option are required to submit a Graduate Student Portfolio and complete an approved research paper. See the English Graduate Coordinator for details.

Native speakers of English must demonstrate proficiency in another language by earning at least a C grade in a second-semester, college-level course or by passing a specially designed examination. Course work taken to satisfy this foreign language requirement does not count toward the number of hours required for completion of the degree major.

For full admission, non-native English speakers must have achieved a Test of English as a Foreign Language (TOEFL) score of 600 (paper-based)/250 (computer-based), or the equivalent, in order to demonstrate their proficiency in English. A student may be required to take additional English language improvement courses at the discretion of the English Graduate Faculty. Work taken to satisfy the language proficiency requirement does not count toward the minimum of 30 to 36 semester hours required to complete the selected emphasis.

Effective July 1, 2003, individuals teaching in Iowa community colleges are no longer required to hold state issued teaching licenses. However, graduate course work in postsecondary education may strengthen one's qualifications for teaching at a community college. Contact individual colleges to determine the requirements for teaching appointments at each institution.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of English Language and Literature for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

**Literature Emphasis:** Available on both the **thesis** and **non-thesis** option.  
Required:

English Language and Literature: 620:201 .....3 hours  
Electives.....27 hours  
Planned with the student's advisor and subject to the approval of the departmental committee: must include 15 hours of 200-level courses (including 6 hours of 620:299 required for thesis option; no more than 3 hours of 620:299 may be used for the non-thesis option)

30 hours

**Creative Writing Emphasis:** Available on the **thesis** option only.

Required:

English Language and Literature: 620:201 .....3 hours  
English Language and Literature: 620:108 or 620:109 .....3 hours  
English Language and Literature: 620:174 and/or 620:175 .....3-6 hours  
English Language and Literature: 620:270 .....3-6 hours  
Research: 620:299 .....6 hours

Electives (planned with student's advisor and subject to approval by the departmental committee):

Literature courses from English Language and Literature (must include 6 hours of 200-level courses) .....12 hours  
Literature, writing, or culture from a department other than English or a non-literature course from English.....3 hours

36 hours

The required thesis shall consist of a collection of short stories, a novel or novel excerpt, a collection of poems, a book-length poem,

or a combination of fiction and poetry. Critical apparatuses - such as prologue, introduction, epilogue, notes, bibliography — are not required within the thesis. A formal oral defense of the thesis is required, and a public reading of selected portions of the thesis is recommended.

**Teaching English in the Secondary Schools-Middle/Junior High and Senior High (TESS) Emphasis:** Available on the **non-thesis** option only.

Teacher licensure is a prerequisite for completing the program approval process for this emphasis. Also prerequisite is the following undergraduate course work: one course in TESOL/Applied Linguistics; one course in advanced writing; two courses in British literature; one course in American literature; one course in modern or ethnic literature; one course in young adult literature; one course in the teaching of writing; and 620:190.

No more than 3 hours of prerequisite courses can be applied to the minimum hours required for this emphasis. Further deficiencies must be made up in addition to the required courses listed below. Students who have not taken all the prerequisite work should consult at once with the English Graduate Coordinator in order to plan appropriate course work.

Required:

Literacy Education: 230:117.....3 hours  
English Language and Literature: 620:168; 620:201; 620:291 .....9 hours  
English Language and Literature: 200-level literature seminars .....9 hours  
TESOL/Applied Linguistics: 630:190; 630:143 or 630:192.....6 hours  
Electives\* ..... 6 hours  
33 hours

\*Students who have not completed 280:138 in *English* are required to take 620:297 for 1 hour. A student who has completed any of the required courses at the undergraduate level may elect other departmental graduate level courses to complete the required minimum total of 33 hours.

## **Major in Teaching English to Speakers of Other Languages (TESOL)**

This major is available on the **thesis** and **non-thesis** options, and requires a **minimum of 33 semester hours**. The thesis option includes 6 hours of 630:299 Research; the non-thesis option requires an approved research paper. **A minimum of 15 hours of 200-level course work is required for either option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final written comprehensive examination is required for **both thesis and non-thesis options**, as specified by the TESOL/Applied Linguistics faculty. See the TESOL Graduate Coordinator for details.

All students who have not had the following courses, or the equivalent, must include these courses as part of their graduate major:

TESOL/Applied Linguistics: 630:125 or 630:130; 630:154; 630:160.

Students are required to meet with their advisors for a program approval interview. Students should complete this interview during the first semester of their course work. The department may require a student to complete course work in addition to the minimum of 33 semester hours required for a master's degree. In such cases, these hours will be specified at the time of the interview.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of English Language and Literature for any other admission requirements. Graduate information and application for graduate

## Program Requirements

### English Language and Literature

admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

TESOL/Applied Linguistics: 630:125 or 630:130; 630:154;  
630:160 or 630:163; 630:192; 630:193; 630:194;  
630:201; 630:240 or 630:295; 630:289; 630:292;  
630:297 .....33 hours

Students choosing the thesis option are required to complete 6 hours of 620:299, which substitute for 6 hours of the above required courses, as approved by the TESOL Graduate Coordinator. Students who have earned undergraduate credit for any of the required courses select electives in TESOL/Applied Linguistics, with the advice and approval of the TESOL Graduate Coordinator, to complete the required minimum total of 33 hours.

Native speakers of English must demonstrate proficiency in another language by earning at least a C grade in a second-semester, college-level course or by passing a specially designed examination. International students must have achieved a Test of English as a Foreign Language (TOEFL) score of 600 (paper-based)/250 (computer-based), or the equivalent, in order to demonstrate their proficiency in English. An international student may be required to take additional English language improvement courses at the discretion of the TESOL/Applied Linguistics faculty. Work taken to satisfy the language proficiency requirement does not count toward the 33 semester hours required to complete the major program.

Students who wish state licensure to teach should request information concerning licensure requirements from the Director of Teacher Education, University of Northern Iowa, or from the Department of Education in the state in which they plan to teach.

### Major in TESOL/Modern Languages

This major is offered cooperatively by the Department of English Language and Literature and the Department of Modern Languages, and is under the jurisdiction and supervision of the heads of these two departments.

This major is available on the **non-thesis** option only. A **minimum of 33 semester hours** is required, including a **minimum of 18 hours at the 200-level**. An approved research paper is also required. The student who has not completed 7x0:101 and either 630:125 or 630:130 (or the equivalent) before entering the master's degree program must add these courses to the requirements listed below. There is no separate modern language requirement.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final written comprehensive examination is required for this M.A. major, as specified by the TESOL/Applied Linguistics and Modern Language faculties. See the TESOL Graduate Coordinator for details.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of English Language and Literature for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

TESOL/Applied Linguistics: 630:192; 630:193  
or 630:194; 630:201; 630:240 or 630:289 or 630:295;  
630:292; 630:297 .....18 hours

Electives: One of the following language emphases for a  
minimum total emphasis of 15 hours of which  
6 hours must be at the 200-level.....15 hours  
33 hours

### French Emphasis:

Languages: 700:190\* or 700:290 .....3 hours  
French: 720:124 or 720:125; and one of the following –  
720:203 or 720:207 or 720:270 or 720:271 or 720:289...6 hours  
Plus courses approved by the graduate French advisor ..... 6 hours  
15 hours

### German Emphasis:

Languages: 700:190\* or 700:290 .....3 hours  
German: 740:123 or 740:150.....3 hours  
Plus courses approved by the graduate German advisor ..... 9 hours  
15 hours

### Spanish Emphasis:

Languages: 700:190\* or 700:290 .....3 hours  
Spanish: one graduate course in each of the following areas:  
culture and civilization; translation; linguistics ..... 6-9 hours  
Plus courses approved by the graduate Spanish advisor... 3-6 hours  
15 hours

\*700:190 is required for a teaching endorsement in Modern Languages; 700:190 has a required corequisite 7xx:191 (2 hours), which cannot count toward an M.A. degree.

**Note:** International students must have achieved a Test of English as a Foreign Language (TOEFL) score of 600 (paper-based)/250 (computer-based), or the equivalent, in order to demonstrate their proficiency in English. An international student may be required to take additional English language development courses at the discretion of the TESOL/Applied Linguistics faculty.

Students who wish state licensure to teach should request information concerning licensure requirements from the Director of Teacher Education, University of Northern Iowa, or from the Department of Education in the state in which they plan to teach.

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of English Language and Literature or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Post-Colonial and Multicultural Literary Studies

This certificate offers explorations of post-colonial, multicultural, and ethnic literary studies that will help equip students to participate in an increasingly diverse society.

Required: ..... 3-6 hours

English Language and Literature: 620:040.  
French: 720:031.  
Portuguese: 790:031.

Electives ..... 9-12 hours

(To include at least 9 hours of 1xx-level courses)  
English Language and Literature: 620:128; 620:157; 620:158;  
620:184.  
TESOL/Applied Linguistics: 630:160.  
French: 720:108; 720:128.  
German: 740:132.  
Spanish: 780:104; 780:120; 780:127.

15 hours

## Department of Finance

### (College of Business Administration)

[www.cba.uni.edu/finance](http://www.cba.uni.edu/finance)

A. Cox, Interim Head. R. Followill, D. Giarusso, S. Johnson, A. Rappaport, D. Sparks, A. Thompson, R. Wyatt, M. Zaman.

The Department of Finance offers the following undergraduate programs and program certificate. Specific requirements for these programs are listed within this Department of Finance section in the following order:

#### Undergraduate Majors (B.A.)

Finance  
Real Estate

#### Minors

Finance (for Business and Non-Business Majors)  
Real Estate-Business  
Real Estate

#### Program Certificate

Financial Analysis

**Note:** Students majoring in Finance and/or Real Estate must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Student Advising and Career Services Office in the College of Business Administration or at [www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm](http://www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm). Prior to completion of the admission requirements, students may sign an intent to major in Finance or Real Estate and be classified as a prospective (pre)major. Pre-Finance and Pre-Real Estate majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Finance and Real Estate majors *may* declare a double major, and/or major and minor within the College of Business Administration, subject to the approval of the other CBA departments involved. Finance and Real Estate majors minoring within the CBA must select minors designated for business majors. Finance majors cannot minor in Finance, and Real Estate majors cannot minor in Real Estate. However, Finance majors may double major or minor in Real Estate, and Real Estate majors may double major in Finance or minor in Finance.

To graduate with a major in Finance or Real Estate from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted as outside the College of Business Administration. A student must earn a 2.20 cumulative grade point average at UNI; and must earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

The Finance Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Student Advising and Career Services Office (CBB 321B) in the College of Business Administration.

## Bachelor of Arts Degree Programs

### Finance Major

The Finance major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours
Finance: 160:151 .....	3 hours
Economics: 920:020; 920:053; 920:054; 920:070 .....	12 hours
Required Finance: 160:152; 160:161; 160:171 .....	9 hours
Emphasis requirements: (students select one area of emphasis below) .....	9 hours
	57 hours**

#### Emphases:

##### 1. Financial Management

Electives: (9 hours)  
Finance: 160:141\*; 160:153; 160:154; 160:156 (sections 1, 2, 3, and 4); 160:157; 160:158; 160:163.  
Economics: 920:113.

##### 2. Investments

Required: (6 hours)  
Finance: 160:156 (section 2); 160:156 (section 3).  
Electives: (3 hours)  
Finance: 160:141\*; 160:153; 160:154; 160:157; 160:158.

##### 3. Financial Services

Required: (6 hours)  
Finance: 160:153; either 160:141 or 160:154 or 160:157.  
Electives: (3 hours)  
Finance: 160:141\* or 160:154 (if not selected as required course); 160:158; 160:162; 160:163.  
Economics: 920:113.

\*Students who major in both Finance and Real Estate may not use 160:141 to satisfy the requirements of the Finance major.

\*\*In addition to the required 57 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

### Real Estate Major

The Real Estate major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours
Finance: 160:151 .....	3 hours
Economics: 920:020; 920:053; 920:054; 920:070 .....	12 hours
Required Real Estate and Finance: 160:140; 160:141; 160:142; 160:143; 160:161; 160:171 .....	18 hours
	57 hours*

\*In addition to the required 57 hours, 920:020 and 920:070 have as a

## Program Requirements

### Finance/Geography

prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## Minors

### Finance Minor (for Business and Non-Business Majors)

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Finance: 160:151*; 160:152 .....	6 hours
Electives: .....	9 hours
Finance: 160:141; 160:153; 160:154; 160:156 (sections 1, 2, 3, and 4); 160:158; 160:161; 160:162; 160:163.	
Economics: 920:113.	
	<hr/> 15 hours**

\* 160:151 has additional prerequisites of 120:031; 920:053; 920:054; 920:070 or equivalent.

\*\***NOT** available to majors in Finance

### Real Estate Minor-Business

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Finance: 160:140; 160:141; 160:142; 160:143 .....	12 hours
Electives from the following .....	3 hours
Marketing: 130:106; 130:153; 130:178.	
Finance: 160:153; 160:163.	
Industrial Technology: 330:018.	
Economics: 920:148.	
Geography: 970:104; 970:121; 970:168.	
	<hr/> 15 hours

Available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, and Marketing.

### Real Estate Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Finance: 160:140; 160:142; 160:143 .....	9 hours
Marketing: 130:101 .....	3 hours
Electives from the following .....	3 hours
Marketing: 130:106; 130:153; 130:178.	
Finance: 160:141**; 160:151**; 160:153**; 160:163**.	
Industrial Technology: 330:018.	
Economics: 920:148**.	
Geography: 970:104; 970:121; 970:168**.	
	<hr/> 15 hours*

**NOT** available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

\*In addition to the required 15 hours, 130:101 has a prerequisite of either 920:024 or 920:053. 920:024 or **both** 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.

\*\*These courses require additional prerequisites.

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of Finance or the Office of the Registrar, which serves as the centralized registry.

### Financial Analysis Certificate

Required:

Finance: 160:266 (MBA students) or 160:161; 160:152; 160:156 (section 2); 160:156 (section 3); 160:171 .....	15 hours 15 hours*
--	-----------------------

In order to receive the Financial Analysis Certificate, all candidates must participate in the department's Financial Analysis Study Seminar, and pass the CFA® Level 1 exam administered by the Association of Investments Management Research (AIMR®). In addition, MBA students who are candidates for the Financial Analysis Certificate must participate in the department's Level 2 Examination Review sessions and register to take the CFA® Level 2 examination administered by AIMR®.

\*Course prerequisites will lengthen this certificate for non-business majors.

## Department of Geography

### (College of Social and Behavioral Sciences)

<http://fp.uni.edu/geography>

P. Pease, Head. D. Dahms, T. Fogarty, D. May, A. Oberle, J. Owusu, T. Strauss, R. Sugumaran, K. Weller.

The Department of Geography offers the following undergraduate and graduate programs and program certificate. Specific requirements for these programs are listed within this Department of Geography section in the following order:

#### Undergraduate Majors (B.A.)

Geography  
Geography with Environmental Emphasis  
Geography with Geographic Information Science Emphasis  
Geography-Teaching

#### Minors

Geography-Liberal Arts  
Geography-Teaching

#### Graduate Major (M.A.)

Geography

#### Program Certificate

Certificate in Cartography and Geographic Information Systems (GIS)

## Bachelor of Arts Degree Programs

### Geography Major

The Geography major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to

complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Geography: 970:010; 970:026 (4 hr. version); 970:040; 970:061; 970:164; 970:180 .....	19 hours
One of the following .....	3 hours
Mathematics: 800:072.	
Sociology: 980:080.	
Electives in geography .....	18 hours*
	40 hours

\*Other programs occasionally offer courses appropriate to the geography major. The Department of Geography will approve substituting up to two such courses for electives in Geography. Note that only 3 hours of credit in 970:179 will count toward electives for the major.

## Geography Major With Environmental Emphasis

The Geography major with Environmental Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required Geography core:**

Geography: 970:010; 970:026 (4 hr. version); 970:028; 970:040; 970:061; 970:100; 970:164; 970:180 .....	25 hours
Geography: 970:163 or 970:173 or 970:175 .....	3 hours
One of the following .....	3 hours
Mathematics: 800:072.	
Sociology: 980:080.	
Three courses from the following.....	9 hours
Earth Science: 870:141.	
Geography: 970:126; 970:127; 970:129; 970:137; 970:144.	
One of the following .....	3 hours
Philosophy: 650:175.	
Environmental Science: 830:165.	
Economics: 920:123*.	
Political Science: 942:155; 943:137.	
Sociology: 980:148.	

43 hours

\*This course requires 920:053 and 920:054 as prerequisites. Completion of both 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.

## Geography Major With Geographic Information Science Emphasis

The Geography major with Geographic Information Science emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Geography: 970:010; 970:026 (4 hr. version); 970:061; 970:163; 970:164; 970:165; 970:173; 970:174; 970:180 .....	28 hours
One of the following .....	3 hours
Mathematics: 800:072.	
Sociology: 980:080.	

Two courses from the following .....6 hours

Computer Science: 810:030; 810:114.

Geography: 970:160; 970:175; 970:183.

Two courses from the following .....6 hours

Geography: 970:114; 970:117; 970:119; 970:121;

970:126; 970:129; 970:137; 970:151; 970:168.

43 hours

## Geography Major-Teaching (Extended Program)

The Geography-Teaching major requires a minimum of 129-135 total hours to graduate (depending on the minor chosen). This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 129-135 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Social Science: 900:190; 900:191 .....	4 hours
Geography: 970:010; 970:026 (4 hr. version); 970:040; 970:061; 970:141 or 970:142; 970:171 or 970:180 .....	19 hours
Electives in geography .....	15 hours*
	38 hours

A teaching minor is required in one of the social sciences.

\*Other programs occasionally offer courses appropriate to the geography major. The Department of Geography will approve substituting up to two such courses for electives in geography. Note that only 3 hours of credit in 970:179 will count toward electives for the major.

## Minors

### Geography Minor-Liberal Arts

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

**Required:**

Geography: 970:010 or 970:040; 970:026 (4 hr. version) .....	7 hours
Electives in geography .....	12 hours*
	19 hours

\*Only 3 hours of credit in 970:179 will count toward electives for the minor.

### Geography Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

**Required:**

Social Science: 900:190; 900:191 .....	0-4 hours
Geography: 970:010 or 970:040; 970:026 (4 hr. version); 970:141 or 970:142 .....	10 hours
Electives in geography .....	15 hours*
	25-29 hours

\*Only 3 hours of credit in 970:179 will count toward electives for the minor. Students must add 900:190 and 900:191 to the above requirements, unless already taken in the major.

## Master of Arts Degree Program

### Major in Geography

The major in Geography is available on the **thesis** and **non-thesis**

## Program Requirements

### Geography/Health, Physical Education, and Leisure Services

options. A **minimum of 32 semester hours**, including 6 hours 970:299 for thesis research and writing, is required for the thesis option. Students must successfully present a written and oral thesis proposal prior to registration in 970:299. A **minimum of 38 semester hours**, including 3 hours 970:298 for completion of a research paper, is required for the **non-thesis** option. **A minimum of 17 hours of 200-level course work is required for both the thesis and non-thesis options.** Any 200-level course offered as a graded course must be taken on a graded basis.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in enrolling in the program should contact the graduate coordinator in the Department of Geography. Applications should include two letters of recommendation, a brief statement about professional interests and career objectives, and transcripts of both undergraduate and graduate credit. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

#### **Thesis Option:**

Required geography:

970:202 (1 hr.; must be taken twice) .....	2 hours
970:280; 970:294 .....	6 hours
970:299 .....	6 hours

Electives .....

(At least 12 of the 18 hours must be in geography; at least 3 of the 18 hours must be at the 200-level; cannot include 970:298; additional hours of 970:299 cannot count toward the minimum 18 elective hours)

32 hours

#### **Non-Thesis Option:**

Required geography:

970:202 (1 hr.; must be taken twice) .....	2 hours
970:280; 970:294; 970:298 .....	9 hours

Electives .....

(At least 15 of the 27 hours must be in geography; at least 6 of the 27 hours must be at the 200-level; cannot include 970:299)

38 hours

Each student's program (beyond the required core courses) will be determined by individual needs in consultation with her/his graduate advisor and the graduate coordinator. For the thesis option, an oral thesis defense is required. For the non-thesis option, a final presentation of the research paper is required.

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of Geography or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Cartography and Geographic Information Systems (GIS)

The Certificate in Cartography and Geographic Information Systems (GIS) is designed to give the student a substantial background in the fields of cartography and geographic information systems. Students completing the program will be familiar with the terminology, techniques and theory of cartography and GIS principles. Hands-on computer experience is a major feature of many of the courses. The

program complements majors in disciplines other than geography while increasing the geography major's preparation for the job market.

The student must earn a grade point average of at least 3.00 in the courses taken for the certificate. It is the responsibility of the student to notify the Head of the Department of Geography during or immediately after the semester in which the course requirements will be or have been completed.

Required:

Geography: 970:164; 970:165; 970:174.....	9 hours
Electives .....	6 hours
Two courses selected from:	
Geography: 970:160; 970:163; 970:173; 970:175; 970:183. ....	15 hours

## School of Health, Physical Education, and Leisure Services

### (College of Education)

[www.uni.edu/coe/hpels](http://www.uni.edu/coe/hpels)

C. Edginton, Director. I. Ahrabi-Fard, D. Briggs, J. Brucker, C. Cooper, D. Cryer, T. Davis, D. Depken, R. Dieser, F. Dolgener, T. Evans, K. Finn, F. Fontana, J. Gassman, P. Geadelman, O. Grybovysh, T. Haak, J. Hall, N. Hamilton, L. Hensley, C. Herndon, S. Hudson, S. Joseph, K. Kerr, C. Kowalski, S. Lankford, R. Lee, R. Lund, J. Ma, M. Mack, R. Marston, O. Matvienko, T. Noonan, H. Olsen, C. Phillips, S. Roberts-Dobie, K. Scholl, L. Shaddox, J. Shappy, K. Snyder, M. Stille, D. Thompson, M. Toerner, E. Vold, P. Waack, J. Waldron, W. Weiss, J. Wilson, M. Yehieli, C. Zeman.

The School of Health, Physical Education, and Leisure Services offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this School of Health, Physical Education, and Leisure Services section **by division** within the School, in the following order:

### **Division of Athletic Training -**

#### **Undergraduate Major (B.A.)**

Athletic Training

#### **Graduate Major (M.S.)**

Athletic Training

#### **Graduate Major (Ed.D.)**

Doctor of Education: Rehabilitation Studies  
intensive study area

### **Division of Health Promotion and Education -**

#### **Undergraduate Majors (B.A.)**

Health Education-Teaching  
Health Promotion

#### **Minors**

Health Education-Teaching  
Health Promotion

#### **Graduate Major (M.A.)**

Health Education

#### **Graduate Major (Ed.D.)**

Doctor of Education: Community Health Education intensive  
study area

**Program Certificates**

Environmental Health Certificate  
Certificate in Global Health and Health Disparities

**Division of Physical Education -**

**Undergraduate Majors (B.A.)**

Movement and Exercise Science  
Physical Education-Teaching

**Minors**

Coaching  
Dance  
Physical Education-Elementary Teaching

**Graduate Major (M.A.)**

Physical Education

**Division of Leisure, Youth and Human Services -**

**Undergraduate Major (B.A.)**

Leisure, Youth and Human Services

**Minors**

Leisure, Youth and Human Services  
Youth Services Administration

**Graduate Major (M.A.)**

Leisure, Youth and Human Services

**Graduate Major (Ed.D.)**

Doctor of Education: Leisure, Youth and Human Services  
intensive study area

**Program Certificates**

Aquatics Specialization Certificate  
Nonprofit Management and American Humanics Certificate  
Outdoor Recreation Certificate  
School-Age Care Leadership Certificate  
Tourism Certificate

**Division of Athletic Training**

**Academic Standard Policy**

**Major Requirements**

1. Students should indicate their interest in majoring in the B.A. Athletic Training any time after their admission to UNI by completing the Declaration of Curriculum form, and selecting the choice to continue as a student at UNI as a prospective major of *Athletic Training*. Thereafter, students will be considered prospective majors and will be expected to attend departmental advising sessions at regularly scheduled intervals.
2. A student's freshman year shall be devoted primarily to completing the prerequisite core in Athletic Training (42T:023). Liberal Arts Core and/or electives should be taken by students to complete their schedules.
3. Students desiring to apply to the athletic training program must do the following:
  - a. Obtain an application packet from room 203 in the Wellness Recreation Center (WRC).
  - b. Submit all materials by March 1st of each year to the Athletic Training Program office (WRC 203).
  - c. Students may apply while enrolled in the prerequisite courses.
4. Admission into the athletic training program is competitive, therefore the following criteria shall be used for determination of acceptance as a fully declared Athletic Training major:
  - a. Cumulative grade point average (2.50 minimum GPA accepted)

- b. Prerequisite course grades
  - c. Application materials
  - d. Recommendations
  - e. Interview results
  - f. Athletic Training Observation (minimum of 50 hours of observation)
5. A committee of faculty, staff, and students will be assigned to the acceptance committee and will review the applications.
6. Notification of admittance will be made at the end of Spring semester.
7. Upon acceptance into the athletic training program, a student will be converted to a major status by the department and must do the following within 30 days of notification of acceptance:
  - a. Send a letter of acceptance.
  - b. Begin the Hepatitis B Vaccination series or sign the waiver form.
  - c. Provide physician certification that they are physically capable of handling the duties required of an athletic training student.
  - d. Complete the Athletic Training Education Program's Technical Standards Form.
  - e. Complete all other paper work available at the ATEP office.
8. Students not accepted into the program will be restricted from taking Athletic Training courses beyond 42T:023.
9. Transfer students entering UNI shall be subject to the admission and acceptance requirements listed above.
10. To graduate from UNI with an Athletic Training major, students must:
  - a. Maintain current CPR, OSHA, and First Aid certifications.
  - b. Pass an annual physical.
  - c. Maintain a 2.50 cumulative GPA, and 3.00 GPA for Athletic Training courses.
  - d. Complete a minimum of 200 hours, maximum of 500 hours, of field experience each semester.
  - e. Be enrolled in the athletic training program for six semesters or a minimum of four semesters if transferring.
    1. Please note that if a student wishes to transfer to UNI they must complete the six semesters of athletic training education and field experience. A student may transfer prior class work and field experiences but must request the petition forms from the athletic training program. (Additional transfer student policies are available at the ATEP office.)
    2. Transfer students should assume that they would be in the program for three academic years unless petitioning for acceptance of prior course work and/or field experiences.
- f. Follow the athletic training curricular plan as outlined in the student handbook.
- g. Complete and follow the athletic training curricular plan as outlined in the student handbook.
- h. Complete the Athletic Training major.
11. All other program information is available at the athletic training program office or our Web site [www.uni.edu/athtrn](http://www.uni.edu/athtrn).

**Bachelor of Arts Degree Program**

**Athletic Training Major**

The Athletic Training major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Athletic Training major is designed to prepare students to be-

## Program Requirements

### Health, Physical Education, and Leisure Services

come athletic training professionals. It prepares students for the National Athletic Training Board of Certification Examination as well as eligibility for an Athletic Training License in the State of Iowa. The curriculum is based upon cognitive and psychomotor learning experiences. The athletic training education program is accredited by the Commission on Accreditation of Allied Health Education Programs.

Prerequisite core:

Athletic Training: 42T:023 (or the equivalent) .....2 hours

Required core:

Biology: 840:101; 840:102 .....8 hours

Physical Education: 420:151; 420:153; 420:154;  
420:186 (2 hrs. Studies in Sport Nutrition).....10 hours

Health, Physical Education, and Leisure Services:

440:010 Personal Wellness of the Liberal Arts

Core (This course is also part of the athletic training core to satisfy the Health content requirement within the curriculum.) .....3 hours

Athletic Training: 42T:024 (or the equivalent); 42T:028;  
42T:033; 42T:034; 42T:110; 42T:134; 42T:135;

42T:137; 42T:138; 42T:143; 42T:144; 42T:157;  
42T:158; 42T:162; 42T:170; 2T:175; 42T:180.....31 hours

54 hours

## Master of Science Degree Program

### Major in Athletic Training

The Athletic Training Master of Science degree is designed for those who are NATABOC certified athletic trainers who wish further education in treatment and rehabilitation of the physically active. This degree is offered on a **thesis** and **non-thesis** option. A **minimum of 36 semester credit hours** is required. **A minimum of 21 credit hours at the 200-level is required for both the thesis and non thesis options.**

Admission is competitive and based upon undergraduate grade point average, recommendations, and interview results. Once admitted, each student will be required to complete the program of study as well as the clinical component of the program. All additional requirements and information are available at the Division of Athletic Training office. Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Measurement and Research: 250:180 .....3 hours

Athletic Training: 42T:210; 42T:220; 42T:230; 42T:240;  
42T:250; 42T:260; 42T:270; 42T:289 (8 hrs.).....22 hours

Physical Education: 420:289 (2 hrs.) .....2 hours

Health, Physical Education and Leisure Services,

Interdepartmental: 440:290 .....3 hours

Research: 420:299 .....2 or 6 hours

Thesis Option (6 hrs.)

Non thesis Option (2 hrs.)

Electives .....0 or 4 hours

Thesis option (0 hrs.)

Non thesis option (4 hrs.)

Common Electives: 420:200; 420:222; 420:251; 420:253;  
420:255; 420:260; 420:271.

36 hours

## Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) is required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations, fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, all students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Rehabilitation Studies** intensive study area is designed to prepare Certified Athletic Trainers and/or other Allied Health professionals to plan, implement, evaluate, and supervise educational programs as well as develop a scholarly agenda. Graduates will be prepared for careers as athletic training program directors, clinical coordinators, applied scholars, and practicing clinicians. This program focuses on a holistic approach of preparing students by including administration, education, and rehabilitation studies within the curriculum. (For more information, contact the Chair of the Division of Athletic Training within the School of Health, Physical Education, and Leisure Services.)

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Division of Athletic Training for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73.

### Program Requirements

#### I. Professional Common Core (15 hours)

Education Foundations.....3 hours

Interdepartmental, Education: 190:301.

Research:

Interdepartmental, Education: 190:303;  
190:305; 190:307.....9 hours

Measurement and Research: One of the following -  
250:270; 250:300; 250:301; 250:310.....3 hours

#### II. Advanced Professional Studies (38 hours)

**Requirements for the Rehabilitation Studies intensive study area:**

Athletic Training Core:

42T:270 (2 hrs.); 42T:301 (3 hrs.); 42T:310 (3 hrs.).....8 hours

Seminar in Athletic Training: 42T:289 (Seminar:  
Outcomes, 2 hrs.; Seminar: Epidemiology, 2 hrs.;

Seminar: Kinesmetrics in Athletic Training  
Research, 2 hrs.; Community Building and  
Leadership, 2 hrs.).....8 hours

Practicum: 42T:297.....4 hours



Track (select two) .....	12-15 hours
A. Evidence Based Practice 42T:230 (2 hrs.); 42T:240 (2 hrs.); 42T:260 (2 hrs.).	
B. Orthopedic Assessment 42T:210 (2 hrs.); 42T:220 (2 hrs.); 42T:250 (2 hrs.).	
C. Exercise Science 420:253 (3 hrs.); 420:260(3 hrs.); 420:271 (3 hrs.)	
Electives.....	3-6 hours

### III. Dissertation (7 hours)

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

<b>Doctoral Seminar:</b> 190:389 .....	1 hour
<b>Dissertation Research:</b> 190:399 .....	<u>6 hours</u>
	60 hours

## **Division of Health Promotion and Education**

## **Bachelor of Arts Degree Programs**

### **Health Education Major—Teaching**

The Health Education/Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Current First Aid and CPR certification is required of all major students prior to student teaching.

Required:

Educational Psychology: 200:118; 200:151 .....	6 hours
Measurement and Research: 250:180 or	
Mathematics: 800:072.....	3 hours
Design, Textiles, Gerontology, & Family Studies: 31F:057 .....	3 hours
Psychology: 400:170 or	
Social Work: 450:171 .....	3 hours
Health Promotion and Education: 410:005; 410:140; 410:144; 410:151; 410:153; 410:163; 410:164; 410:178 .....	19 hours

Health Promotion and Education: 410:112 or

Physical Education: 420:050.....

Electives to be chosen from the following list..... 3 hours  
40 hours

Educational Psychology: 200:116.	
Measurement and Research: 250:181.	
Design, Textiles, Gerontology, & Family Studies: 31F:010; 31F:020; 31F:055; 31F:155; 31F:157; 31F:178.	
Health Promotion and Education: 410:020; 410:120; 410:146; 410:147; 410:155; 410:162.	
Physical Education: 420:153.	
Social Work: 450:102.	
World Religions/Philosophy: 640:194 or 650:194 or CAP:194.	

### **Health Promotion Major**

The Health Promotion major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

A student declaring a major in Health Promotion will be required to have sophomore standing and a minimum GPA of 2.50 for all courses whether taken at UNI or transferred from other institutions. A minimum 2.50 GPA will be required for admission to 410:168, Field Experience in Health Promotion. To graduate with a major in Health Promotion a student must have a cumulative GPA of 2.50 in all course work taken at UNI or transferred from another institution.

Required common core:

Health Promotion and Education: 410:110; 410:112; 410:145*; 410:156; 410:163; 410:165; 410:176 .....	21 hours
---	----------

Choose one of the following 4 options:

Option 1 (36 hours)	
Option 2 (33 hours)	
Option 3 (35-36 hours)	
Option 4 (45-46 hours)	

Total hours for option 1 .....57 hours

Total hours for option 2 .....54 hours

Total hours for option 3 ..... 56-57 hours

Total hours for option 4 ..... 66-67 hours

\*410:145 has a prerequisite of 250:180 or 800:072. 800:072 may be used to satisfy Category 1C of the Liberal Arts Core.

#### **Option 1 - Health Promotion (36 hours)**

Required:

Health Promotion and Education: 410:005; 410:118; 410:131; 410:151; 410:153; 410:155; 410:164; 410:168 (12 hrs.).	
Physical Education: 420:050; 420:153; 420:156.	

#### **Option 2 - Women's Health (33 hours)**

Required: (30 hours)

Health Promotion and Education: 410:005; 410:020; 410:128; 410:151; 410:153; 410:162; 410:168 (12 hrs.); 410:178.	
--	--

Electives: (3 hours from the following)

Design, Textiles, Gerontology, & Family Studies: 31F:057; 31F:155; 31F:157; 31F:178.	
---	--

Psychology: 400:060.

Communication Studies: 48C:142\*\*; 48C:153.

Social Science: 900:020.

History: 961:146.

Anthropology: 990:167.

\*\*48C:142 has prerequisite of 48C:004.

#### **Option 3 - Global Health and Health Disparities (35-36 hours)**

Required: (33 hours)

Health Promotion and Education: 410:005; 410:138; 410:147; 410:151; 410:153; 410:161; 410:167; 410:168 (12 hrs.); 410:178; 410:197.	
---	--

Electives: (select 2-3 hours from the following):

Health Promotion and Education: 410:020; 410:125; 410:152/ CAP:152.	
--	--

Anthropology: 990:167.

#### **Option 4 - Science Intensive: Environmental Health (45-46 hours)**

This interdisciplinary emphasis is recommended for students who wish to prepare for careers as environmental health professionals as it provides experiences in the sciences and health areas. It also provides

## Program Requirements

### Health, Physical Education, and Leisure Services

preparation for post-graduate study in the field of environmental health or public health.

Required: (33-34 hours)

Health Promotion and Education: 410:005; 410:153; 410:166;  
410:168 (6 hrs.); 410:180\*.

Biology: 840:051; 840:052; 840:151.

Chemistry and Biochemistry: 860:044 and 860:048, or 860:070 and  
860:063.

Electives: (select from the following)

Health Promotion and Education: 410:020; 410:138; 410:147;  
410:152/CAP:152; 410:164; 410:178.

Biology\*\*: 840:140; 840:147; 840:150; 840:155; 840:168; 840:170;  
840:180\*\*\*.

Chemistry and Biochemistry\*\*: 860:132.

Earth Science: 870:031; 870:171.

\*410:180 has a prerequisite of 250:180 or 800:072. 800:072 may be used  
to satisfy Category 1C of the Liberal Arts Core.

\*\*These required courses can be satisfied with appropriate selection of  
courses for completing the Biology minor.

\*\*\*Prerequisites for 840:180 are 840:100 and 840:140.

## Minors

### Health Education Minor-Teaching

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

Current First Aid and CPR certification is required of all minors  
prior to student teaching.

Required:

Educational Psychology: 200:118 .....3 hours  
Design, Textiles, Gerontology, & Family Studies:  
31F:057 .....3 hours

Psychology: 400:170 .....3 hours

Health Promotion and Education: 410:135 (for K-8  
endorsement) or 410:140 (for 5-12 endorsement);  
410:005; 410:112; 410:144; 410:151; 410:153;

410:163; 410:164.....19 hours  
28 hours

### Health Promotion Minor

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

Required:

Health Promotion and Education: 410:005; 410:110;  
410:145\*; 410:153; 410:156; 410:163\*\*; 410:164;

410:176.....21 hours  
21 hours

\*410:145 has a prerequisite of 250:180 or 800:072. 800:072 may be used  
to satisfy Category 1C of the Liberal Arts Core.

\*\*410:163 has a prerequisite of 410:112 or both 840:101 and 840:102.

## Master of Arts Degree Program

### Major in Health Education

This major is available on the **thesis** and **non-thesis** options. A  
**minimum of 31-35 semester hours** is required depending on the emphasis  
chosen. Additional hours may be required, if, upon entering the graduate  
program, the student needs background courses. The thesis option re-

quires 6 hours of thesis research 410:299. The non-thesis option requires  
a research paper for 2 hours credit 410:299. **A minimum of 12 hours,  
exclusive of 410:299 credit, must be at the 200-level.**

The Graduate Record Examination (General Test) **is not** required  
for admission to the program.

Successful completion of a final written comprehensive examination  
is required for **both the thesis and non-thesis options**.

Students interested in this program must submit a completed Appli-  
cation for Admission to Graduate Study and should contact the Division  
of Health Promotion and Education (within the School of Health, Physi-  
cal Education, and Leisure Services) for any other admission require-  
ments. Graduate information and application for graduate admission  
can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Three emphases are offered on this major:

#### I. Health Promotion/Fitness Management Emphasis

Required:

Management: 150:130 .....3 hours

Measurement and Research: 250:180 or  
Health, Physical Education, and Leisure Services,

Interdepartmental: 440:210 or 440:215 .....3 hours  
Measurement and Research: 250:205 or

Health, Physical Education, and Leisure Services,

Interdepartmental: 440:290 .....3 hours

Health Promotion and Education: 410:131;

410:166; 410:271; 410:290; 410:293.....15 hours

Health Promotion Graduate Seminar: 410:289

(1 hr. each for two semesters).....2 hours

Physical Education: 420:253 .....3 hours

Electives: 410:299 .....2 or 6 hours

Thesis option (6 hrs.)

Non-thesis option (2 hrs.)

31 or 35 hours

#### II. Community Health Education Emphasis

Required:

Health Promotion and Education: 410:131; 410:165;

410:167; 410:220; 410:290; 410:293.....16 hours

Measurement and Research: 250:205 or

Health, Physical Education, and Leisure Services,

Interdepartmental: 440:290 .....3 hours

Health Promotion Graduate Seminar: 410:289

(1 hr. each for two semesters) .....2 hours

Electives as approved by the Graduate Committee:

(6 hrs. 410:299 required for the thesis option;

2 hrs. 410:299 required for the non-thesis option).....12 hours  
33 hours

#### III. School Health Education Emphasis

Required:

Health Promotion and Education: 410:131; 410:290.....6 hours

Measurement and Research: 250:205 or

Health, Physical Education, and Leisure Services,

Interdepartmental: 440:290 .....3 hours

Health Promotion Graduate Seminar: 410:289

(1 hr. each for two semesters) .....2 hours

Electives as approved by the Graduate Committee:

(6 hrs. 410:299 required for the thesis option;

2 hrs. 410:299 required for the non-thesis option).....21 hours  
32 hours

The additional course requirements for this emphasis will be  
governed largely by teacher licensure requirements.

## Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) is required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations, fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, all students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Community Health Education** intensive study area is designed to equip community health promotion and public health education professionals for positions of leadership in applied community and public health education settings. Graduates of the program are prepared for careers in applied academic settings including (but not limited to) allied health and nursing colleges, universities with a focus on teaching, and liberal arts colleges, as well as leadership positions in major community and public health organizations such as county, state, and national departments of public health, and government and non-government health organizations. (For more information, contact the Chair, Health Promotion and Education Division, School of Health, Physical Education, and Leisure Services.)

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Division of Health Promotion and Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73.

### Program Requirements

- I. Professional Common Core** (15 hours)
  - Education Foundations**.....3 hours
    - Interdepartmental, Education: 190:301.
  - Research:**
    - Interdepartmental, Education: 190:303; 190:305; 190:307.....9 hours
    - Measurement and Research: One of the following - 250:270; 250:300; 250:301; 250:310.....3 hours
- II. Advanced Professional Studies** (38 hours)
  - Requirements for the Community Health Education intensive study area:**
    - Community Health Education Core (21 hours)
      - 410:220 (3 hrs.); 410:290 (3 hrs.); 410:293 (3 hrs.); 410:319 (3 hrs.); 410:320 (3 hrs.) .....15 hours
    - Seminar: 410:389 (6 semesters).....6 hours

### Track (select one) (17 hours)

#### A. Postsecondary Health Education

Postsecondary Education: Student Affairs: 170:230; 170:260.....6 hours  
 Internship (teaching): 410:395 .....2 hours  
 Practicum (teaching): 410:397 .....3 hours  
 Electives.....6 hours

#### B. Community and Public Health Education

Political Science: 942:153 or 942:173 .....3 hours  
 Leisure, Youth and Human Services: 430:253.....3 hours  
 Internship (public health) .....2 hours  
 Practicum (public health).....3 hours  
 Electives.....6 hours

### III. Dissertation (7 hours)

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

**Doctoral Seminar:** 190:389..... 1 hour  
**Dissertation Research:** 190:399.....6 hours  
 60 hours

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the School of Health, Physical Education, and Leisure Services or the Office of the Registrar, which serves as the centralized registry.

### Environmental Health Certificate

Required:

Health Promotion and Education/Environmental Science:  
 410:165 or 830:165; 410:166 or 830:166 .....6 hours  
 Health Promotion: 410:163.....3 hours  
 Electives: 6 hours chosen from either or both of the following categories.....6 hours  
 15 hours

#### I. Public Health Focus Area

Health Promotion and Education: 410:110 or 410:293; 410:145; 410:162; 410:176; 410:178.  
 Biology: 840:147.

#### II. Environmental Sciences Focus Area

Environmental Science: 830:200; 830:235.  
 Biology: 840:149; 840:151; 840:155; 840:167.

## Certificate in Global Health and Health Disparities

Required:

Health Promotion and Education: 410:138; 410:147; 410:161; 410:167; 410:197 ..... 9-11 hours  
 Electives selected from the following..... 6 hours  
 Leisure Services: 430:030.  
 Social Work: 450:142.  
 Communication: 48C:151.  
 Social Science: 900:041; 900:080.  
 Political Science: 943:024; 943:125.  
 Sociology: 980:045; 980:148.

## Program Requirements

### Health, Physical Education, and Leisure Services

Anthropology: 990:011; 990:164; 990:167;  
990:168; 990:177.

15-17 hours

## Division of Physical Education

### Bachelor of Arts Degree Programs

#### Movement and Exercise Science Major

The Movement and Exercise Science major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Completion of this program prepares students for careers or further study in movement and exercise science or related areas but not for endorsement in K-12 school settings. To declare this major a student must file an approved program of study with her/his advisor.

##### Required core:

Physical Education: 420:018; 420:050; 420:053; 420:056;  
420:121; 420:151; 420:153; 420:162 .....21 hours  
Choose one of the following emphases.....18 hours  
39 hours

##### Emphasis 1 - Dance Education

This emphasis provides a broad background in dance education. Students in this emphasis are strongly encouraged to take 420:034 as their Liberal Arts Core Category 3A requirement.

Physical Education: 420:013 (2 hrs.); 420:031; 420:132;  
420:135 .....8 hours  
Physical Education: 420:036 (2 hrs.); 420:140  
(2 hrs.).....4 hours  
Physical Education: minimum of 6 hours from 420:191,  
420:193, 420:194, 420:197 .....6 hours  
18 hours

##### Emphasis 2 - Exercise Science

This emphasis prepares students with a broad background in exercise science with the ability to implement individual and group exercise and fitness programs and as a preparation for graduate study in exercise science.

Physical Education: 420:025; 420:122; 420:156;  
420:186 (5 hrs.) .....12 hours  
Physical Education: minimum of 6 hours from 420:191,  
420:193, 420:194, 420:197 .....6 hours  
18 hours

##### Emphasis 3 - Sport Psychology

This emphasis provides a broad education in sport psychology and is designed to prepare students interested in pursuing careers in coaching, youth sport, as a sport teaching professional, motivational trainer, or for advanced studies in coaching. Students in this emphasis are strongly encouraged to complete a coaching minor.

Physical Education: 420:019; 420:122; 420:154;  
420:186 (7 hrs.) .....12 hours  
Physical Education: minimum of 6 hours from 420:191,  
420:193, 420:194, 420:197 .....6 hours  
18 hours

#### Physical Education Major-Teaching

The Physical Education-Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Completion of this program qualifies the student to be recommended for endorsements for Physical Education K-8 and Physical Education 5-12.

Student teachers must have current First Aid and CPR certification.

##### Disciplinary Knowledge core:

Physical Education: 420:018; 420:050; 420:053; 420:056;  
420:121; 420:151; 420:153; 420:162 .....21 hours

##### Pedagogical content:

Physical Education: 420:152\*; 420:173; 420:174\*;  
420:176 .....14 hours

##### Skill and Activity content:

Physical Education: 420:011; 420:013; 420:015; 420:016;  
420:017; 420:021 .....10 hours  
45 hours

\*Students with a major in Physical Education-Teaching will substitute 420:152 for 220:150 and 420:174 for 250:150 in the Professional Education Requirements.

### Minors

#### Coaching Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Students who complete this program will qualify for the Department of Education coaching endorsement. The coaching endorsement is for grades K-12. However, this program does not qualify students to teach physical education at any level.

Students who complete this program and are not teaching majors will qualify for the Department of Education coaching authorization.

##### Required:

Educational Psychology: 200:030 .....3 hours  
Physical Education: 420:018; 420:019; 420:024; 420:025;  
420:118; 420:122; 420:127 .....13 hours

##### Electives from the following.....4-6 hours

Physical Education: 420:101; 420:102; 420:104; 420:105;  
420:107; 420:108; 420:109; 420:110; 420:111;  
420:112; 420:113.

20-22 hours

**Note:** Students in teaching majors will complete 200:030 within the Professional Education Requirements. 420:118 (Practicum) must be completed prior to student teaching.

#### Dance Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

##### Required activities:

Physical Education: 420:A07 Beginning Ballet or 420:A52  
Intermediate Ballet; 420:A13 Beginning Jazz or  
420:A57 Intermediate Jazz; 420:A08 Beginning  
Ballroom Dance or 420:A09 Intermediate Ballroom  
Dance; 420:A11 Beginning Modern Dance or 420:A12

## Program Requirements Health, Physical Education, and Leisure Services

Intermediate Modern Dance; 420:A10 Beginning International Folk Dance; 420:A64 Tap Dance; 420:013 Fundamentals of Dance (2 hrs.).....	8 hours
Required theory:	
Physical Education: 420:024; 420:034.....	6 hours
Electives in Dance:	
Physical Education: at least 4 hours must be from the following four courses - 420:031, 420:132, 420:135, 420:146; 420:140; 420:168.....	6 hours
Electives .....	3 hours
Selected to complement student's interest with the approval of the dance minor advisor from the following areas: Art; Communication Studies; Design, Textiles, Gerontology, & Family Studies; Health; Humanities; Instructional Technology; Music; Physical Education; Leisure, Youth and Human Services. Required courses from a student's major may not be included.	
	23 hours

### Physical Education Minor-Elementary Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

This Physical Education minor is designed for students who are elementary majors receiving K-6 endorsement. Students are encouraged to seek advisement from the elementary physical education staff prior to scheduling.

Required:	
Physical Education: 420:013; 420:016 (Soccer); 420:021*; 420:050; 420:056; 420:140; 420:151; 420:152; 420:153; 420:173 (2 hrs.) .....	22 hours
Electives .....	4 hours
Physical Education: 420:013; 420:015; 420:016; 420:053; 420:132; 420:140; 420:174; 420:176.	
	26 hours

\*420:021 will substitute for 420:045 in the Elementary Education major requirement.

Current certification in American First Aid and CPR are required for completion of the Physical Education minor at the time of student teaching.

## Master of Arts Degree Program

### Major in Physical Education

This major is available on the **thesis** and **non-thesis** options. A **minimum of 30 semester hours** is required for both options. Additional hours may be required if, upon entering the graduate program, the student needs prerequisites. Total hours for the thesis option includes 6 hours of Research 420:299. Total hours for the non-thesis option includes 2 hours of 420:299 for a research paper. A thesis/research paper defense is required.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Division of Physical Education (within the School of Health, Physical Education, and Leisure Services) for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

This major offers two emphases:

#### I. Teaching/Coaching Emphasis:

This emphasis is designed for those students who plan to teach and/or coach in an educational setting at a variety of levels, and is available on the **thesis** and **non-thesis** options. **A minimum of 15 hours must be at the 200-level for both the thesis and non-thesis options.**

If the undergraduate degree in Physical Education does not include a theory class in either *Elementary or Secondary Methods in Physical Education*, the student will be required to make up the deficiency with one 3 hour undergraduate methods course. This would extend the Teaching/Coaching emphasis to a *33-hour minimum*.

Additionally, if the undergraduate degree was not in Physical Education or the student does not have at least 12 hours of undergraduate theory classes (exclusive of activity classes and advanced skill and coaching classes) on her/his transcript, the student must take 12 hours of either undergraduate or graduate physical education course work to make up the deficiency; 3 hours of the additional 12 hours must be an undergraduate *Elementary or Secondary Methods in Physical Education* course. This would extend the Teaching/Coaching emphasis to a *42-hour minimum*.

Required:

Physical Education: 420:273; 420:297 .....	6 hours
Measurement and Research: 250:180 or Health, Physical Education, and Leisure Services, Interdepartmental: 440:210 or 440:215 .....	3 hours
Health, Physical Education, and Leisure Services, Interdepartmental: 440:290 or Measurement and Research: 250:205 .....	3 hours
Research: 420:299 .....	2 or 6 hours
Thesis option (6 hrs.) Non-thesis option (2 hrs.)	
Electives approved by the advisor.....	6 or 10 hours
Thesis option (6 hrs.) Non-thesis option (10 hrs.)	
Focus Area: select one of the following.....	6 hours
	30 hours

Public School Focus:

Physical Education: 420:230; 420:231 .....	6 hours
--	---------

Postsecondary Focus:

Postsecondary Education: select two of the following - 170:218; 170:230; 170:250.....	6 hours
--	---------

#### II. Scientific Bases of Physical Education:

This emphasis is designed for those who wish to concentrate their study in one of the subdisciplines of physical education, and is available on the **thesis** and **non-thesis** options. **A minimum of 21 hours, exclusive of 420:299 credit, must be at the 200-level.**

Required:

Physical Education: 420:200 .....	2 hours
Health, Physical Education, and Leisure Services, Interdepartmental: 440:210 or equivalent; 440:290.....	6 hours
Research: 420:299 .....	2 or 6 hours
Thesis option (6 hrs.) Non-thesis option (2 hrs.)	
Focus area: select one of the following.....	16 or 20 hours
	30 hours

## Program Requirements

### Health, Physical Education, and Leisure Services

#### Exercise Science Focus:

Physical Education: 420:253; 420:260; 420:271 .....	8 hours
Physical Education: 420:285 or 420:289* or 420:293 .....	3 hours
Electives approved by the advisor .....	5-9 hours 16 or 20 hours

#### Sport and Exercise Psychology Focus:

Physical Education: 420:222; 420:251; 420:255 .....	9 hours
Physical Education: 420:285 or 420:289* or 420:293 .....	3 hours
Electives approved by the advisor .....	4-8 hours 16 or 20 hours

\*420:289 may be repeated as an elective for up to 6 hours.

## Division of Leisure, Youth and Human Services

## Academic Policies

### Major Requirements

Students should indicate their interest in majoring in the B.A. Leisure, Youth and Human Services by completing an application to the division. Leisure, Youth and Human Services application materials may be obtained in the division office (WRC 203). The following criteria shall be used to determine acceptance as a fully declared major in the program:

1. 2.00 or above cumulative UNI GPA.
2. 2.50 or above cumulative GPA in a minimum of 9 hours of course work in the division (must include 430:010, 430:020, and any other 430:xxx course for which the student is eligible).
3. A grade of C (2.00) or higher in all courses applied to the major. If the student earns less than a C in a major course, s(he) must retake the course within two semesters in order to apply it to the major.
4. Upon satisfaction of the acceptance requirements (a-c above), the student shall be converted to major status by the division.
5. Within one semester after full admission to the major, students must demonstrate computer competency through passing the HPOLS computer competency exam or successfully completing 440:120.

Within one semester after full admission to the major, students must file an approved undergraduate Program of Study, including all electives to be taken for the major.

In order to remain in good academic standing, students must maintain a cumulative major GPA of 2.50 or above. Students whose GPAs fall below 2.50 will have one semester in which to raise grades to the required level. If they are unable to do so, they must retake the course or courses that caused the GPA to fall below 2.50, and they will be administratively dropped from any other major courses for which they have registered.

In order to be eligible for internship and graduation, students must:

1. Meet the academic criteria above.
2. Complete a minimum of 500 Professional Experience hours in Leisure, Youth and Human Service settings.
3. Hold or obtain current certification in American Red Cross CPR PRO (Professional Rescuer), American Red Cross AED (Automatic External Defibrillation), American Red Cross First Aid, American Red Cross PDT (Prevention of Disease Transmission), and Child/Dependent Adult Abuse mandatory Reporter Training.

### Minor Requirements

Admission to the Leisure, Youth and Human Services and Youth Services Administration minors requires students to have a cumulative UNI GPA of 2.00. To graduate with a minor in Leisure, Youth and Human

Services or Youth Services Administration, students must have a minor GPA of 2.50, with a grade of C (2.00) or higher in all courses applied to the minor. Students must officially declare the minor and file an undergraduate minor Program of Study within one semester of declaration to be eligible to register for classes.

## Bachelor of Arts Degree Program

### Leisure, Youth and Human Services Major

The Leisure, Youth and Human Services major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Leisure, Youth and Human Services major prepares students for work and on-going study in the leisure, youth and human services field. Graduates may find employment in working with people of all ages with diverse backgrounds in areas such as municipal parks and recreation, commercial recreation, tourism, outdoor recreation, therapeutic recreation (clinical and community-based settings), the nonprofit sector, youth serving agencies, military recreation, and other opportunities. The major focuses on direct service programming with an emphasis on supervisory and managerial skills. The Leisure, Youth and Human Services program is accredited by NRPA/AALR.

The Leisure, Youth and Human Services major is offered with six focus areas: Nonprofit Youth Services Administration; Outdoor Recreation; Programming Services Administration; Therapeutic Recreation; Tourism; and Youth Services. There is a common core of courses for all focus areas, with additional course requirements in each focus area.

#### Required core:

Leisure, Youth and Human Services: 430:010; 430:020; 430:110; 430:114; 430:121; 430:169; 430:184; 430:187; 430:189 .....	35 hours
Focus area: choose one of the following .....	27-33 hours 62-68 hours

#### Focus Area - Nonprofit Youth Administration

##### Required:

Leisure, Youth and Human Services: 430:060; 430:150; 430:151; 430:154; 430:155 .....	15 hours
---	----------

##### Supporting courses:

12 hours as approved by advisor .....	12 hours 27 hours
---------------------------------------	----------------------

#### Focus Area - Outdoor Recreation

##### Required:

Leisure, Youth and Human Services: 430:030; 430:050; 430:130; 430:143; 430:146 .....	15 hours
---	----------

##### Supporting courses:

12 hours as approved by advisor .....	12 hours 27 hours
---------------------------------------	----------------------

#### Focus Area - Programming Services Administration

##### Required:

Leisure, Youth and Human Services: 430:030; 430:151; 430:168; 430:172 .....	12 hours
--	----------

##### Supporting courses:

15 hours as approved by advisor .....	15 hours 27 hours
---------------------------------------	----------------------

### Focus Area - Therapeutic Recreation (*Extended Program*)

#### Required:

Leisure, Youth and Human Services: 430:030; 430:123;  
430:160; 430:163; 430:167 .....15 hours

#### Supporting courses:

18 hours to be developed in consultation with advisor.

The following are required for National Council for

Therapeutic Recreation Certification (NCTRC):

Physical Education: 420:050.....3 hours

Design, Textiles, Gerontology, & Family Studies:

31F:055 .....3 hours

Psychology: 400:142 .....3 hours

Electives: 9 hours in human services content areas including

adapted physical education, related biological/physical

sciences, human services, psychology, sociology, and

special education .....9 hours

33 hours

**Note:** 400:001 may be used to satisfy Category 5A and 980:001 may be used to satisfy Category 5A/5C of the Liberal Arts Core.

### Focus Area - Tourism

#### Required:

Leisure, Youth and Human Services: 430:070; 430:075;

430:170; 430:171; 430:172; 430:173 .....18 hours

#### Supporting courses:

9 hours as approved by advisor .....9 hours

27 hours

### Focus Area - Youth Services

#### Required:

Leisure, Youth and Human Services: 430:030; 430:060;

430:155; 430:157 .....12 hours

#### Supporting courses:

15 hours as approved by advisor .....15 hours

27 hours

## Minors

For Academic Policies regarding minors within the Division of Leisure, Youth and Human Services see page 144.

### Leisure, Youth and Human Services Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

#### Required:

Leisure, Youth and Human Services: 430:010; 430:020;

430:030; 430:110 .....12 hours

Electives (two of the following) .....6 hours

Leisure, Youth and Human Services: 430:114; 430:121;

430:123; 430:168; 430:169; 430:172.

18 hours

### Youth Services Administration Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

#### Required:

Youth and Human Service Administration: 430:060;

430:150; 430:151; 430:154; 430:155 .....15 hours

Leisure, Youth and Human Services: 430:188 .....2 hours

17 hours

## Master of Arts Degree Program

### Major in Leisure, Youth and Human Services

This major is designed to foster preparation for professional leadership roles in the administration of leisure, youth and human services agencies. The program offers the student the opportunity to take an active role in determining personal learning objectives and developing individual programs of study. The program supports professional development through the utilization of relevant philosophy, content, and skills in order to provide management and leadership for effective and efficient delivery of leisure, youth and human services. Students are encouraged to focus on study that has direct relevance to professional practice.

There are two curricular emphases available to students in this major: Community Leisure Services Programming and Youth and Human Service Administration. For each option, a **minimum of 32 semester hours** is required. Up to an additional 12 hours of undergraduate work may be required for students who do not have undergraduate preparation in the area. All undergraduate prerequisites must be fulfilled prior to enrollment in program-specific graduate course work.

This major is available on the **thesis** and **non-thesis** options. **The thesis option requires a minimum of 15 hours of 200-level course work, including 6 hours of 430:299 Research. The non-thesis option requires a minimum of 12 hours of 200-level course work, including 3 hours of 430:299 Research.** Successful completion of a final comprehensive examination (research paper/thesis) is required for **both the thesis and non-thesis options**. A final oral comprehensive examination will occur simultaneously during the oral defense of the research paper or thesis.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Division of Leisure, Youth and Human Services (within the School of Health, Physical Education, and Leisure Services) for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

#### 1. Community Leisure Services Programming Emphasis

Students interested in the management of recreation and leisure services in public, quasi-public, and private/commercial agencies and organizations are encouraged to pursue an M.A. in Leisure, Youth and Human Services with a Leisure Services Management emphasis.

#### Required:

Research Methodology (select one of the following) .....3 hours

Health, Physical Education, and Leisure Services,

Interdepartmental: 440:290.

Sociology: 980:178; 980:201.

Statistical Analysis (select one of the following) .....3 hours

Measurement and Research: 250:180 (or equivalent).

Sociology: 980:160.

Leisure, Youth and Human Services: 430:201; 430:241;

430:250 .....9 hours

Research: 430:299 .....2 or 6 hours

Thesis option (6 hrs.)

Non-thesis option (2 hrs.)

Electives approved by the department .....11-15 hours

(Recommended electives: 430:202; 430:260; and

other courses in consultation with advisor)

32 hours

## Program Requirements

### Health, Physical Education, and Leisure Services

#### 2. Youth and Human Service Administration Emphasis

Students interested in the administration of youth and human services in nonprofit and public agencies and organizations are encouraged to pursue an M.A. in Leisure, Youth and Human Services with a Youth and Human Service Administration emphasis.

Required:

Research Methodology (select one of the following) .....3 hours  
Health, Physical Education, and Leisure Services,  
Interdepartmental: 440:290.

Sociology: 980:178; 980:201.

Statistical Analysis (select one of the following) .....3 hours  
Measurement and Research: 250:180 (or equivalent).  
Sociology: 980:160.

Leisure, Youth and Human Services: 430:201; 430:241;  
430:250 .....9 hours

Research: 430:299 ..... 2 or 6 hours  
Thesis option (6 hrs.)  
Non-thesis option (2 hrs.)

Electives approved by the department ..... 11-15 hours  
Recommended sub-focus areas:

Youth Development focus:

Educational Psychology: 200:116.

Leisure, Youth and Human Services: 430:241; 430:244;  
430:260; 430:291 (2-6 hrs.).

Human Services Administration focus:

Leisure, Youth and Human Services: 430:251;  
430:253; 430:254; 430:256.

32 hours

**Note:** Students interested in pursuing a doctorate in Leisure, Youth and Human Services should refer to page 146, Doctor of Education degree.

## Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) **is not** required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations, fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, *all* students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Leisure, Youth and Human Services** intensive study area is designed to interpret and apply youth development models and concepts as well as nonprofit administrative practices to the planning, management, supervision and evaluation of informal education programs in the community. Graduates are prepared for careers as applied scholars, administrators of community nonprofit organizations, youth serving agencies,

public parks and recreation, foundations, and government agencies. Program of study will be based upon student's needs, interests, and upon approval by academic advisor and program of study committee. (For more information, contact the Chair, Leisure, Youth and Human Services Division, School of Health, Physical Education, and Leisure Services.)

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Division of Leisure, Youth and Human Services for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73.

## Program Requirements

### I. Professional Common Core (15 hours)

**Education Foundations** .....3 hours

Interdepartmental, Education: 190:301.

**Research:**

Interdepartmental, Education: 190:303; 190:305;

190:307 .....9 hours

Measurement and Research: One of the following -

250:270; 250:300; 250:301; 250:310 .....3 hours

### II. Advanced Professional Studies ..... 38 hours

**Requirements for the Leisure, Youth and Human Services intensive study area:**

This is the component of the program that relates to and supports the student's professional career goal. The program of study for the Leisure, Youth and Human Services intensive study area will be based upon student's needs, interests, and upon approval by academic advisor and program of study committee.

### III. Dissertation (7 hours)

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

**Doctoral Seminar:** 190:389 ..... 1 hour

**Dissertation Research:** 190:399 .....6 hours  
60 hours

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the School of Health, Physical Education, and Leisure Services or the Office of the Registrar, which serves as the centralized registry.

### Aquatics Specialization Certificate

The purpose of this certificate is to develop and produce quality graduates who have the appropriate skills and certifications to obtain employment in the aquatic profession. Upon completion of the certificate, students will be able to teach Lifeguarding, Water Safety, and be certified as a pool operator through national certifications.

Required:

Physical Education: 420:011; 420:060; 420:061; 420:120 .....7 hours

Leisure, Youth and Human Services: 430:010; 430:110 .....6 hours



Electives: 5 hours, as approved by advisor, selected from the following ..... 5 hours  
Physical Education: 420:A39 (Canoeing, 1 hr.), 420:A66 (Skin and Scuba Diving, 2 hrs.), 420:109 (2 hrs.), 420:168 (1 hr.), 420:186 (Studies in Small Craft Safety/Water Rescue, 1 hr.), 420:186 (Studies in Physical Education: Lifeguard Instructor Training, 1 hr.)  
Leisure, Youth and Human Services: 430:168 (3 hrs.)  
Health, Physical Education, and Leisure Services,  
Interdepartmental: 440:186 (Studies in Legal Issues in Health, Physical Education, Leisure, Youth and Human Services, 3 hrs.)  

---

18 hours

### **Nonprofit Management and American Humanics Certificate**

This certificate provides knowledge, skill-building and professional experience for students interested in working in the nonprofit sector. Earning this certificate at UNI also enables students to earn a national certificate in Nonprofit Management from American Humanics, Inc.

Students interested in this certificate should contact the School of Health, Physical Education, and Leisure Services (319-273-2141).

Required:

Youth and Human Service Administration: 430:060;  
430:114; 430:151; 430:154 ..... 12 hours  
Leisure Services Internship: 430:187 ..... 8 hours  
Nonprofit Leadership Practicum: 430:188 ..... 2 hours  

---

22 hours

### **Outdoor Recreation Certificate**

The Outdoor Recreation Certificate program is designed to train students for professional employment in the varied and growing field of outdoor recreation and adventure education. This program offers students the opportunity to develop skills in a variety of outdoor recreation activities while studying the theories, trends and issues involved in working with groups, facilitating adventure education, and managing the impacts of recreation on our natural environment. The Certificate in Outdoor Recreation is available to students in all majors.

Required:

Leisure, Youth and Human Services: 430:050; 430:130;  
430:143; 430:146 ..... 12 hours  
Outdoor recreation activity skills classes: 420:xxx;  
440:xxx ..... 3 hours  

---

15 hours

### **School-Age Care Leadership Certificate**

This certificate is designed to provide students participating in the Camp Adventure Youth Services program an opportunity to receive credit for their application of youth development principles to school-age children (ages 5-12) in global settings.

Required:

Leisure, Youth and Human Services: 430:141; 430:144;  
430:165 ..... 15 hours  
Electives selected from the following ..... 2-3 hours  
Educational Psychology and Foundations: 200:017;  
200:109; 200:116; 200:235.  
Design, Textiles, Gerontology, & Family Studies:  
31F:010; 31F:020; 31F:055  

---

17-18 hours

### **Tourism Certificate**

The Tourism Certificate is administered by the Leisure, Youth and Human Services Division within the School of Health, Physical Education, and Leisure Services, College of Education. For information on this program certificate, contact the Division of Leisure, Youth and Human Services, Tourism Advisor, 203 WRC.

Required:

Leisure, Youth, and Human Services: 430:070;  
430:075\* ..... 6 hours  
Two courses from the following ..... 6 hours  
Leisure, Youth and Human Services: 430:138;  
430:171; 430:173.  
Three hours from the following ..... 3 hours  
Leisure, Youth and Human Services: 430:138;  
430:146; 430:170; 430:172.  
Health, Physical Education, and Leisure Services,  
Interdepartmental: 440:120.  

---

15 hours

\*If student has successfully completed 130:101, this course can be substituted for 430:075.

## **Department of History**

### **(College of Social and Behavioral Sciences)**

**[www.uni.edu/history](http://www.uni.edu/history)**

*R. Martin, Head. J. Baskerville, G. Bruess, T. Connors, B. Cutter, R. Dise, T. Eden, L. Fenech, J. Goldman, R. Hesselink, W. Hettle, C. Holcombe, J. Johnson, J. Lees, D. Maier, T. O'Connor, B. Roberts, K. Sadkowski, D. Shepardson, D. Walker, C. Weisenberger, C. Wells.*

The Department of History offers the following undergraduate and graduate programs and program certificate. Specific requirements for these programs are listed within this Department of History section in the following order:

#### **Undergraduate Majors (B.A.)**

European Studies (also listed in Department of Modern Languages)  
History—Liberal Arts  
History—Teaching

#### **Minors**

History  
History—Teaching  
History (K-8)—Teaching

#### **Graduate Major (M.A.)**

History

#### **Program Certificate**

Certificate in Public History

## **Bachelor of Arts Degree Programs**

### **European Studies Major**

The European Studies major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

## Program Requirements

### History

This is an interdisciplinary program offered jointly by the College of Social and Behavioral Sciences and the College of Humanities and Fine Arts, and is under the jurisdiction of the heads of the Departments of History and Modern Languages, and can only be elected as a second major with a major in history or a major in a foreign language (French, German, Portuguese, Russian, and Spanish).

#### Required core courses:

Philosophy: 650:101 or 650:103 or 650:104.....3 hours  
Humanities: 680:021 .....3 hours

History: one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171; 963:156; 963:170 (for students in Russian) or 963:172 (for students in German) or 963:174 (for students in French) or 960:186 (Studies in History: Portugal, for students in Portuguese) or 960:186 (Studies in History: Spain, for students in Spanish) or 963:165 (for students with an emphasis in English history) .....9 hours

Electives in history, political science, economics or geography  
—approved by advisor (6 hours must be taken outside  
of history) .....9 hours

Foreign Language component\* .....22 hours  
22 hours beyond first-year French, German, Portuguese,  
Russian or Spanish, to include:

French: 720:101; 720:104; 720:124 or 720:125.  
or  
German: 740:101; 740:104; 740:123 or 740:150.  
or  
Russian: 770:101; 770:102; 770:141.  
or  
Spanish: 780:101; 780:104; 780:123.  
or  
Portuguese: 790:101; 790:123. To include 4 hours  
from 790:109; 790:186; 790:191; 790:198.  
One 3-hour course in translation, literature or  
TESOL/Applied Linguistics.  
One summer's study abroad in Europe required  
for students in French, German, and Spanish and  
highly recommended for students in Portuguese  
and Russian. Required for students emphasizing  
English history and language: one summer's study  
abroad in the British Isles.

46 hours

\*With permission, students emphasizing the British Isles may substitute Gaelic, Old or Middle English for this requirement.

### History Major–Liberal Arts

The History-Liberal Arts major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Required:

Humanities: those 3 hours of Humanities (either 680:021, 680:022, or 680:023) not used to fulfill the 6-hour  
Liberal Arts Core curriculum requirement in  
Category 2A.\* .....3 hours  
History: 960:010 and 960:011 (corequisites) (these courses  
must be taken immediately after major is declared);  
961:014; 961:015 (961:014 and 961:015 must be taken

by the end of the sophomore year); 960:192.....13 hours  
Electives in history (must be 100-level) .....27 hours

#### To include:

European history - 12 hours

Must include one course from Category A (962:101, 962:103, 962:123, 962:126; 962:151, 962:152, 962:153, 962:158, 962:164, 962:171), and one course from Category B (963:153, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188).

Non-Western history - 6 hours

964:127, 964:128, 964:175, 964:176, 964:178, 964:180, 964:181, 964:182, 964:183, 964:187.

43 hours

\*All History majors must successfully complete Category 2A of the Liberal Arts Core.

**Note:** In order to graduate with a major in History Liberal Arts students must achieve a total major GPA of at least 2.50.

### History Major–Teaching

The History-Teaching major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Required:

Social Science: 900:190; 900:191 .....4 hours  
Humanities: those 3 hours of Humanities (either 680:021, 680:022, or 680:023) not used to fulfill the 6-hour  
Liberal Arts Core curriculum requirement in  
Category 2A.\* .....3 hours

History: 960:010 and 960:011 (corequisites) (these courses  
must be taken immediately after major is declared);  
961:014; 961:015 (961:014 and 961:015 must be taken

by the end of the sophomore year); 960:192.....13 hours

Electives in history (must be 100-level) .....24 hours

#### To include:

European history - 9 hours

Must include one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one course from Category B (963:153, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188).

Non-Western history - 6 hours

964:127, 964:128, 964:175, 964:176, 964:178, 964:180, 964:181, 964:182, 964:183, 964:187.

United States history - 9 hours

44 hours

The History major may consider a minor in at least one other social science discipline.

\*All History majors must successfully complete Category 2A of the Liberal Arts Core.

## Minors

### History Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Electives in history (12 hours must be 100-level).....18 hours

**Note:** 961:015 and one European history course from Category B (963:153, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) are strongly recommended.

## History Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Social Science: 900:190; 900:191 (corequisites) (unless already taken for the major) ..... 0-4 hours

History: 961:014 and 961:015 for teaching endorsement in American history; or two courses in European History — one from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one from Category B (963:153, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) for teaching endorsement in world history .....6 hours

Electives in history (must be 100-level) : (for teaching endorsement in American history, students must take an additional 18 hours in United States history; for teaching endorsement in world history, students must take an additional 18 hours in European and non-Western history) ..... 18 hours

24-28 hours

Students whose emphasis is world history must include one non-Western history course and one history course from the following: Middle Ages, Ancient Near East, Greece, or Rome.

## History Minor (K-8)–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Elementary, Early Childhood, and Middle Level Education: 210:143 .....3 hours

History: 961:014; 961:015; 961:130; 9 hours of world history including 3 hours of European history and 3 hours of non-Western history .....18 hours

Electives in history ..... 3 hours  
24 hours

## Master of Arts Degree Program

### Major in History

The object of this program is to prepare students for either further graduate study (thesis option recommended), teaching at the secondary or community college level (non-thesis option recommended), or history-related careers in government, business or private research (public history emphasis recommended). As a general rule, students should have a GPA of 3.20 or better for admission to the program. This major is available on the **thesis** and **non-thesis** options; a **minimum of 30 semester hours** is required for either option. **The thesis option requires a minimum of 15 hours of 200-level course work, including a total of 6 hours of 960:299 (students choosing the Public History emphasis may complete a Thesis Project in place of a written thesis). The non-thesis option requires a minimum of 12 hours of 200-level course work and the completion of a research paper.** Prospective majors must consult with

the department head about further requirements prior to beginning their programs.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

For the **thesis option**, students must present a proposal for the approval of their Faculty Committee; pass an oral defense of the thesis; and, depending on the research emphasis, may be required by the Committee to demonstrate competency in a second language. For the **non-thesis** option, students must pass a written comprehensive examination in the primary field and an oral comprehensive examination in both the primary field and a secondary field.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of History for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

### Thesis Option:

Required:

History: 960:280; 960:290 .....6 hours

Seminar: 960:289 (for students choosing American History as primary field) **OR**

960:200-level course (for students choosing European or Non-Western History as primary field) .....3 hours

Research: 960:299 .....6 hours

Electives: (may take one course, up to 3 hours, outside the field of history) ..... 15 hours

30 hours

### Non-Thesis Option:

Required:

History: 960:280; 960:290 .....6 hours

Seminar: 960:289 (for students choosing American History as primary field) **OR**

960:200-level course (for students choosing European or Non-Western History as primary field) .....3 hours

History: 960:200-level course.....3 hours

Electives: (may take one course, up to 3 hours, outside the field of history) ..... 18 hours

30 hours

## Public History Emphasis

This program is offered on the **thesis** or **thesis project** option only. **A minimum of 30 semester hours is required, of which a minimum of 15 hours of 200-level course work (including 6 hours of 960:299) is required.** As a prerequisite for admission to this program, student must have a B.A. in history or at least nine credit hours of history.

Successful defense of the thesis or thesis project is required.

Required:

History: 960:106; 960:280; 960:290 .....9 hours

Internship: 960:132.....6 hours

Seminar: 960:289 .....3 hours

Research: 960:299 .....6 hours

Electives ..... 6 hours  
30 hours

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs

## Program Requirements

### History/Industrial Technology

leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of History or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Public History

This certificate is available to history majors and non-history majors who have completed a prescribed course of study within public history. This program exposes students to the array of opportunities available in the fields of public history and an opportunity to add an experiential component to their academic education. Individual curricula will be defined in consultation with the program's director.

Required:

History: 960:106 .....	3 hours
Two history courses at the 100-level or above .....	6 hours
Two semesters of 960:132 or 960:179 .....	6 hours
	<u>15 hours</u>

## Department of Industrial Technology

### (College of Natural Sciences)

[www.uni.edu/indtech](http://www.uni.edu/indtech)

B. Bergquist, Acting Head. C. Blue, S. Egger, M. Fahmy, J. Fecik, S. Giese, D. Hotek, C. Johnson, A. Kashef, H. Nie, R. O'Meara, R. Pecan, N. Posinasetti, N. Pramanik, M. Salim, S. Varzavand, M. White, J. Zhang, J. Zhu.

The Department of Industrial Technology offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Industrial Technology section in the following order:

#### Undergraduate Majors (B.S.)

Construction Management  
Electrical and Information Engineering Technology (EIET)  
Manufacturing Technology

#### Undergraduate Majors (B.A.)

Graphic Communications  
Technology Education and Training-Teaching  
Technology Education and Training-Training  
Technology Management  
Combined B.A./M.S. or B.S./M.S. - Technology

#### Minors

Electrical and Electronics Technology (EET)  
Graphic Communications  
Technology Education and Training-Teaching  
Technology Management

#### Graduate Majors (M.S.)

Technology

#### Graduate Majors (D.I.T.)

Doctor of Industrial Technology

#### Program Certificates

Advanced Technology Certificate  
Technology Management Certificate

## Bachelor of Science Degree Programs

### Construction Management Major

The B.S. Construction Management major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Student must earn a minimum UNI GPA of 2.20 to register for upper division (100-level) Construction Management courses.

Required core:

Construction sciences/construction: 330:018; 330:025; 330:045; 330:100; 330:124; 330:125; 330:126; 330:128; 330:149; 330:153; 330:154; 330:170; 330:172; 330:173; 330:175; 330:185; 330:196.....	51 hours
---	----------

Required:

Business and management:	
Accounting: 120:030.....	3 hours
Management: 150:080; 150:101; 150:145 .....	9 hours
Economics: 920:020*; 920:024 .....	6 hours
Mathematics and science:	
Mathematics: 800:060; 800:072.....	7 hours
Chemistry and Biochemistry: 860:044.....	4 hours
Physics: 880:054.....	4 hours
	<u>84 hours</u>

\*800:072 or 800:092 is a prerequisite for 920:020. Either 800:072 or 800:092 may be used to satisfy Category 1C of the Liberal Arts Core.

### Electrical and Information Engineering Technology (EIET) Major

The B.S. Electrical and Information Engineering Technology (EIET) major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The Electrical and Information Engineering Technology (EIET) major provides theoretical and hands-on experience in the field of electrical, analog/digital electronics, microprocessors, modern electronic communication systems, digital signal processing, power electronics, control systems, networking, and their applications.

Required mathematics and computer science core:

Mathematics: 800:046; 800:048 or 800:060; 800:064 or 800:072 .....	11 hours
Computer Science: 810:036.....	3 hours
Physics: 880:054; 880:056.....	8 hours

Required technical core:

Industrial Technology: 330:037; 330:038; 330:039; 330:041; 330:042; 330:103; 330:104; 330:129; 330:152; 330:156; 330:157; 330:160; 330:164; 330:165; 330:166; 330:167; 330:174; 330:176.....	<u>52 hours</u> 74 hours
---	-----------------------------

### Manufacturing Technology Major

The B.S. Manufacturing Technology major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core

courses included in major program requirements are distinguished by *italics*.

Required mathematics and science core:

Mathematics: 800:048 or 800:060; 800:072 .....7 hours  
Chemistry and Biochemistry: 860:020 or 860:044.....4 hours  
Physics: 880:054 or 880:130.....4 hours

Required technical core:

Industrial Technology: 330:008; 330:024; 330:060; 330:112;  
330:132; 330:142; 330:143; 330:170; 330:172; 330:179  
(1 hr.); 330:180; 330:187; 330:196; 330:197 .....39 hours

Concentration: choose one of the following three

concentrations .....21 hours  
75 hours

**Advanced Manufacturing:** 330:113; 330:123; 330:145; 330:147; 330:177;  
6 hours electives (see below).

**Manufacturing Design:** 330:106; 330:113; 330:122; 330:135; 330:148;  
330:155; 4 hours electives (see below).

**Metal Casting:** 330:127; 330:134; 330:136; 330:137; 9 hours electives (see below).

Select elective hours from the following:

Industrial Technology: any 100-level course.  
Management: 150:113; 150:119.  
Communication: 48C:141; 48C:173.  
English Language and Literature: 620:106.  
Philosophy: 650:142.  
Sociology: 980:102.

## Bachelor of Arts Degree Programs

### Graphic Communications Major

The Graphic Communications major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Management: 150:153 .....3 hours  
Industrial Technology: 330:022; 330:055; 330:065;  
330:070; 330:144; 330:150; 330:158; 330:161;  
330:179 (3 hrs.); 330:187; 330:194; 330:196 .....38 hours  
Mathematics: 800:046 or 800:072 .....3-4 hours  
Chemistry and Biochemistry: 860:010 or 860:020  
or 860:044 .....3-4 hours  
Physics: 880:011 or 880:012 or 880:054 .....3-4 hours

Electives:

One of the following .....3 hours  
Industrial Technology: 330:020 or 330:143.  
Two of the following.....6 hours  
Industrial Technology: 330:163; 330:169.  
Art: 600:025; 600:125; 600:127.

59-62 hours

### Technology Education and Training Major-Teaching Option

The Technology Education and Training-Teaching option major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core

courses included in major program requirements are distinguished by *italics*.

Required:

Science core:

Physics: 880:011 or 880:012 or 880:054 .....3-4 hours

Technology core:

Industrial Technology: 330:008; 330:017; 330:018;  
330:022; 330:024; 330:036; 330:114  
or 330:121 .....24 hours

Education and training core:

Industrial Technology: 330:019; 330:120; 330:178;  
330:190; 330:195.....15 hours

Electives in industrial technology: (choose from  
construction, energy and power, or transportation).....6 hours  
48 hours

**Note:** Technology Education and Training Major-Teaching option will be waived from 240:020 of the Professional Education Requirements. A student changing majors to a different teaching major would be required to complete 240:020.

### Technology Education and Training Major-Training Option

The Technology Education and Training-Training option major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Science core:

Physics: 880:011 or 880:012 or 880:054 .....3-4 hours

Technology core:

Industrial Technology: 330:008; 330:017; 330:018;  
330:022; 330:024; 330:036; 330:114 or 330:121.....24 hours

Education and training core:

Industrial Technology: 330:019; 330:120; 330:178;  
330:190; 330:195.....15 hours

Technology training:

Measurement and Research: 250:150 .....2 hours  
Industrial Technology: 330:020; 330:143 or 150:153;  
330:168; 330:187.....12 hours  
Mathematics: 800:072.....3 hours  
English Language and Literature: 620:077 or 620:106...3 hours  
62 hours

### Technology Management Major

The Technology Management major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Industrial Technology: 330:008; 330:018; 330:020; 330:022;  
330:036; 330:065; 330:114; 150:153 or 330:131 or  
330:143; 330:142; 330:187; 330:196.....35 hours  
Mathematics: 800:072.....3 hours  
Chemistry and Biochemistry: 860:010 or 860:020 or  
860:044 .....3-4 hours

## Program Requirements

### Industrial Technology

Physics: 880:011 or 880:012 or 880:054 .....	3-4 hours
Electives in industrial technology .....	18 hours
	62-64 hours

### Combined B.A./M.S. or B.S./M.S. - Technology

Students with majors in an Industrial Technology program, interested in the combined program should declare their intent by the end of the junior year (or have completed at least 90 semester hours). They should complete an Application for Admission to Graduate Study and the departmental application, as well as two professional references and have them submitted to the Graduate Coordinator before attempting to register. Application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Upon admittance to the combined B.A./M.S. or B.S./M.S. program, undergraduate students during their senior year may register for a maximum of 9 hours of graduate credit as a senior, with the approval of the Graduate Coordinator and the Department Head on a Student Request form. The admitted student may enroll and self-identify themselves with every instructor in the first two weeks of the semester in these 9 hours during the senior year, but before the baccalaureate degree is awarded. To be eligible for this exception to the undergraduate registration policies, the student must have earned at least 90 hours with a cumulative GPA of 3.00 or higher at the time of registration. When registering for the graduate courses, approval by the Graduate Dean and the Department Heads must be obtained on the same Student Request, with the IT Graduate Coordinator serving as the Advisor. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of enrolled course credits, both undergraduate and graduate may not exceed fifteen hours in a semester or eight hours in a summer session.

Graduate work completed on the early admission basis will be counted as graduate credit only after the baccalaureate degree has been awarded and enrolled for graduate course work within one year of the awarding of the baccalaureate degree. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

## Minors

### Electrical and Electronics Technology Minor (EET)

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The EET minor provides basic theory and hands-on experience in the field of electrical circuits, electrical power and machinery, analog/digital electronics, PLCs and their applications.

Required:

Industrial Technology: 330:037; 330:038; 330:039; 330:041; 330:042; 330:164 .....	18 hours
Mathematics: 800:048 or 800:060 .....	4 hours
Computer Science: 810:030 or 810:035 or 810:036 .....	3 hours
Physics: 880:054 or 880:130 .....	4 hours
	29 hours

### Graphic Communications Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Industrial Technology: 330:022; 330:055; 330:070; 330:161; 330:196 .....	17 hours
Electives: two courses from the following: Industrial Technology: 330:144; 330:150; 330:158; 330:163; 330:169; 330:194 .....	6 hours
	23 hours

### Technology Education and Training Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Industrial Technology: 330:008; 330:017; 330:018; 330:019; 330:022; 330:036; 330:178; 330:190; 330:195 .....	29 hours
Electives in industrial technology: (choose from construction, energy and power, or transportation) .....	3 hours
	32 hours

### Technology Management Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Industrial Technology: 330:020; 330:142; 150:153 or 330:131 or 330:143; 330:187; 330:196 .....	15 hours
Mathematics: 800:072 .....	3 hours
Electives in industrial technology .....	6 hours
	24 hours

## Master of Science Degree Program

### Major in Technology

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Industrial Technology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

This major requires as a prerequisite a bachelor's degree with a major in technology, technology education, engineering, or related technical fields. This major offers several technical emphases: A. Industrial Management; B. Construction Management; C. Electrical Engineering Technology; D. Graphic Communication; E. Manufacturing Materials; F. Manufacturing Technology; and G. Technology Education and Training. Degree admission to the Master of Science in Technology for technical emphases A, B, C, D, E, and F require an applicant to have:

- 1) earned a minimum of 8 semester hours of college mathematics and 8 semester hours of college physics and/or chemistry and biochemistry or other science related to the major area (this may be either graduate or undergraduate credit);
- 2) earned a minimum of 15 semester hours in a major technical field and 8 semester hours in supporting technical subjects;
- 3) 3 semester hours of approved co-op education/internship or relevant experience;
- 4) department application;
- 5) Graduate College application;
- 6) TOEFL score of 550 (paper-based)/213 (computer-based) for applicants for whom English is not their first language;
- 7) three professional references; and
- 8) a minimum undergraduate grade point average of 3.00.



## Program Requirements

### Industrial Technology

#### Required:

Industrial Technology: 330:168 or 330:178; 330:290; 330:195 or 330:291; 330:294.....	12 hours
Instructional Technology : 240:245 or Psychology: 400:232 .....	3 hours

## Doctor of Industrial Technology Degree Program

The University of Northern Iowa offers the Doctor of Industrial Technology degree to meet the increasing need for advanced degree work in this field. Industrial technology is a relatively new and rapidly expanding knowledge base for a wide variety of professional fields: these include technology, trade and industrial education, technical institute education, industrial training, and technology transfer. This research-oriented degree program also includes the study of the technological systems used in industry and their effect on society and culture.

The Doctor of Industrial Technology degree is designed to develop scholars in the fields of education and industry. Programs emphasize the development of a thorough knowledge of (a) industrial technology as an intellectual discipline, (b) the technological systems used in industry and their effect on people and the environment, and (c) the potential and limitations of future developments in technological systems and their utilization in industry. Program emphasis is on providing the intellectual tools necessary to pursue scholarly research and applied practices in the field of industrial technology. Efforts will be made to develop in each student the interest and desire required for a leadership role in improving educational and industrial programs and determining directions for future programs. The degree program requires a **minimum of 64 semester hours** of credit completed **beyond the master's degree**.

The Doctor of Industrial Technology degree program is intended to prepare graduates for one or more of the following professional careers:

1. Faculty, supervisors, and consultants of industrial technology, trade and industrial education, technical institute education and technology education in secondary schools, colleges and universities.
2. Researchers and project coordinators, technology transfer specialists, technology forecasters and assessors of technology for industrial policy planning and decision making.
3. Leaders (e.g., deans, department heads, or directors) of technology-oriented programs at postsecondary institutions.
4. Researchers and research coordinators for education and industry in specific content fields of industrial technology.
5. Designers, coordinators and directors of industrial training or human resource programs, and related industrial applications.

It is the student's responsibility to be familiar with all degree program requirements and take the initiative in meeting established guidelines. This information may be obtained from the Graduate Programs Coordinator in the Department of Industrial Technology.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Industrial Technology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Industrial Technology degree see page 76.

#### Required core program:

<b>Industrial Technology foundations</b> .....	12 hours
Industrial Technology: 330:375; 330:376; 330:377; 330:378	

<b>Seminars</b> .....	4 hours
Industrial Technology: 330:282 (3 hrs.). (Students must enroll in a one-hour seminar during the first three sessions on campus.) Industrial Technology: 330:283 (1 hr.)	
<b>Research, Statistical Methods</b> .....	9 hours
Measurement and Research: 250:180. Industrial Technology: 330:292; 330:296.	
<b>Internship</b> .....	6 hours
Industrial Technology: 330:388.	
<b>Dissertation</b> .....	12 hours
Industrial Technology: 330:399.	
<b>Supporting course work</b> .....	21 hours
Supporting course work may be taken from any discipline in the university as long as it relates to the career goals and competencies identified on the program of study and is approved by the student's faculty advisory committee. A minimum of 8 hours of supporting course work, beyond the required core program, must be taken outside the Department of Industrial Technology.	

64 hours

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following certificates, contact the Department of Industrial Technology or the Office of the Registrar, which serves as the centralized registry.

### Advanced Technology Certificate

This Advanced Technology Certificate program provides graduate students with the competencies, skills, and knowledge essential for the industrial technology environment where technical, supervisory, and managerial competencies are crucial. This program will provide an alternative to the program leading to the Master of Science in Technology degree, but the student may continue to satisfy the foundation requirement for the Master of Science in Technology degree if it is their desire. Completion of the 15 hours in any one of the seven areas will certify that an individual has completed a program approved by the university. There are seven areas and each will constitute a certificate area of 15 semester hours: Industrial Management, Construction Management, Electrical Engineering Technology, Graphic Communications, Manufacturing Materials, Manufacturing Technology, and Technology Education and Training.

All graduate students must be admitted to the Graduate College and satisfy all admission requirements specified for the Department of Industrial Technology Master of Science degree program. Upon completion of the 15 hours, the Department of Industrial Technology will award the program certificate.

For information on the following program certificate, contact the Graduate Coordinator of the Department of Industrial Technology.

#### Industrial Management:

##### Required:

Management: 150:262 .....	3 hours
Industrial Technology: 330:258; 330:295 .....	6 hours
Select two courses from the following.....	6 hours
Management: 150:249.	



## Program Requirements Industrial Technology/Interdisciplinary

Industrial Technology: 330:225; 330:250; 330:294.  
Psychology: 400:157; 400:158.

### Construction Management:

Required:

Industrial Technology: 330:260; 330:262; 330:265 .....9 hours  
Select two courses from the following.....6 hours  
Industrial Technology: 330:125; 330:126; 330:153; 330:154;  
330:173; 330:175; 330:185.

### Electrical Engineering Technology:

Required:

Industrial Technology: 330:104; 330:166; 330:242; 330:244;  
330:248 .....15 hours

### Graphic Communications:

Required:

Industrial Technology: 330:194; 330:286 (3 hrs.); 330:294.....9 hours  
Select two courses from the following:  
Industrial Technology: 330:114; 330:150; 330:158; 330:161;  
330:163; 330:169 .....6 hours

### Manufacturing Materials:

Required:

Industrial Technology: 330:131; 330:234; 330:235 .....9 hours  
Select two courses from the following.....6 hours  
Industrial Technology: 330:188.  
Mathematics: 800:124; 800:176.  
Physics: 880:144; 880:148.

### Manufacturing Technology:

Required:

Industrial Technology: 330:250; 330:258; 330:295 .....9 hours  
Select two courses from the following.....6 hours  
Marketing: 130:263.  
Management: 150:249.  
Industrial Technology: 330:273; 330:275.  
Economics: 920:260.

### Technology Education and Training:

Required:

Industrial Technology: 330:168 or 330:178; 330:290;  
330:195 or 330:291 .....9 hours  
Select two courses from the following.....6 hours  
Instructional Technology: 240:245 or  
Psychology: 400:232.  
Industrial Technology: 330:294.

### Technology Management Certificate

Required:

Industrial Technology: 330:020; 330:065; 330:142; 330:143;  
330:187; 330:196 .....18 hours\*  
18 hours

\*800:072 is a possible prerequisite for 330:142 and 330:143.

## Interdisciplinary Majors and Minors

The university offers a variety of interdisciplinary curricula to meet the growing need and interest in work beyond collegiate division. The following undergraduate and graduate programs and program certificates

are under the supervision and jurisdiction of several committees, departments, or colleges as indicated. The programs include:

### Undergraduate Majors (B.A.)/Minors

American Ethnic Studies Minor  
American Studies Major  
Asian Studies Major  
Asian Studies Minor  
Environmental Studies Minor  
General Studies Major  
Humanities Major  
Humanities Minor  
Individual Studies Major  
International Business Minor  
International Business Minor (Non-Business Majors)  
Leadership Studies Minor  
Russian and East European Studies Minor  
Women's and Gender Studies Minor

### Graduate Majors (M.A.)

Philanthropy and Nonprofit Development  
Women's and Gender Studies

### Graduate Major (M.B.A.)

Master of Business Administration

### Graduate Majors (M.P.P.)

Master of Public Policy  
Accelerated Master of Public Policy

### Graduate Majors (M.S.)

Environmental Science/Technology and Health  
Environmental Science Emphasis  
Environmental Technology Emphasis  
Environmental Health Emphasis  
Combined B.A./M.S. or B.S./M.S. Environmental  
Science/Technology and Health

### Program Certificates

Certificate in International Business, Culture, and Language  
Certificate in Leadership Foundations  
Conflict Resolution Certificate  
Graduate Certificate in Women's and Gender Studies

## Bachelor of Arts Degree and Minor Programs

### American Ethnic Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

This interdisciplinary minor is offered under the jurisdiction and general supervision of the Deans of the College of Social and Behavioral Sciences and the College of Humanities and Fine Arts.

Required:

Social Work or Sociology: 450:045 or 900:045 or 980:045 .....3 hours  
Social Science: 900:145 (this Capstone course to be  
taken last).....3 hours

Electives from the following list of courses, chosen in consultation  
with the Director of the American Ethnic Studies

Program for a minimum of .....15 hours  
21 hours

List of electives:

Area 1 - American Historical Foundations  
One of the following courses:  
History: 961:122.  
Anthropology: 990:132.

## Program Requirements

### Interdisciplinary

#### Area 2 - Ethnographic Background Perspectives

One of the following courses:

Social Work: 450:142.

Humanities: 680:130; 680:160.

#### Area 3 - Arts and Humanities

One of the following courses:

Music: 520:030.

Music History and Musicology: 590:160.

#### Area 4 - Politics and Society

One of the following courses:

Social Work: 450:163\*.

Humanities: 680:131\*.

\*Additional prerequisites are required.

In courses with multiple sections, the section which indicates an American Ethnic Studies emphasis will count for the minor.

These electives may also include individual department's readings, topics, and experimental courses, and other courses, as well as courses sponsored by the Individual Studies Program that directly relate to American Ethnic Studies. The electives selected must have the written approval of the director to be filed in the Office of the Registrar before the final completion and approval of the minor.

## American Studies Major

The American Studies major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This is an interdisciplinary program offered jointly by the College of Social and Behavioral Sciences and the College of Humanities and Fine Arts, and is under the jurisdiction of the heads of the departments of History and English Language and Literature and the general supervision of the Committee on American Studies.

The American Studies major consists of a minimum of 9 semester hours in each of the following four areas:

- 1) American history
- 2) American literature
- 3) Economics, geography, political science, sociology and anthropology
- 4) Religion, philosophy, theatre, art, and music

Required:

American literature elective .....3 hours

Political Science: 942:014.....3 hours

History: 961:014; 961:015; 961:144 .....9 hours

Electives: from the four areas above .....21 hours

Required: a senior colloquium\* ..... 3 hours  
39 hours

\*Colloquium to be an exploration of the total culture of an era or region in historical perspective by applying the disciplines of history, literature, art, philosophy, and the social sciences.

The courses from the four specified areas must be chosen in consultation with an advisor from the Committee on American Studies.

Courses used to meet Liberal Arts Core requirements may not be counted on this major.

## Asian Studies Major

The Asian Studies major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Humanities: two of the following - 680:122; 680:124;

680:125 .....6 hours

680:198 (Independent Study/Supervised Research

Project to be supervised by Asian Studies

Committee) .....3 hours

Anthropology: 990:011 .....3 hours

Electives: a minimum of 24 hours of credit from at least

three different disciplines must be completed from the

following courses (a maximum of 6 semester hours

credit in language courses may be applied toward

satisfying the 24-hour elective credit requirement) .....24 hours

Art: 600:141 (sections on Japan or China);

600:147.

World Religions: 640:130; 640:132.

Humanities: one of the following - 680:122;

680:124; 680:125.

Languages:

Chinese: 710:001; 710:002; 710:011.

Economics: 920:136\*; 920:143\*.

Political Science: 944:162.

History: 964:127; 964:128; 964:181; 964:182;

964:183; 964:187.

Geography: 970:141.

Anthropology: 990:143.

36 hours

\*920:053 and 920:054 are required as prerequisites for all 100-level economics courses. Both 920:053 and 920:054 will substitute for 920:024 which will satisfy Category 5B of the Liberal Arts Core.

Students are encouraged to study abroad for a minimum of one semester.

## Asian Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The programs and general courses in the non-Western foreign area studies are offered under the jurisdiction of the Committee on Asian Studies and the general supervision of the Dean of the College of Social and Behavioral Sciences.

Required:

Humanities: two of the following - 680:122; 680:124;

680:125 .....6 hours

680:198 (to be supervised by the Asian Studies

Committee and combining Asian Studies and the

student's major discipline) .....3 hours

Two additional courses to be chosen from the list of Asian

Studies major electives ..... 6 hours

15 hours

## Environmental Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

This is an interdisciplinary minor offered under the jurisdiction of the Environmental Programs Office and the general supervision of the Dean of the College of Natural Sciences.

Required:

Biology: 840:051 .....4 hours

Economics: 920:053; 920:054; 920:123\* .....9 hours

Geography: 970:100\*\* .....3 hours

Sociology: 980:148\*\* .....3 hours

Electives: a minimum of 9 semester hours of credit  
(of which at least 6 hours must be from 100-level  
courses) from disciplines other than the major and with  
no more than 6 hours from any single department must  
be completed from courses approved by the  
Environmental Programs Office.....9 hours  
28 hours

\*Taking prerequisite courses 920:053 and 920:054 will satisfy Category 5B  
of the Liberal Arts Core.

\*\*These courses have prerequisites which may satisfy requirements in the  
Liberal Arts Core.

This minor allows students a specific program to complement their  
major. Because the Environmental Studies minor is designed to broaden  
students' awareness of environmental issues as they relate to their major  
discipline, students interested in this minor should have a clear grasp of  
the major field before applying for such a minor.

Applications and approval of particular programs will be admin-  
istered under the College of Natural Sciences, with the interdisciplinary  
Environmental Programs Office serving as the program coordinating  
body. Upon application by the student, the Dean of the College of  
Natural Sciences will appoint a faculty advisor to work closely with the  
student in planning her/his minor.

## General Studies Major

The General Studies major requires a minimum of 120 total hours  
to graduate. This total includes Liberal Arts Core requirements (pages  
55-57) and the following specified major requirements, plus electives to  
complete the minimum of 120 hours. Liberal Arts Core courses included  
in major program requirements are distinguished by *italics*.

This is a diversified liberal arts major supervised by the Coordinator  
of the Individual Studies Program.

Required:

a minimum of 15 semester hours of 100-level courses  
from each of three of the five colleges\* for a  
minimum total of .....45 hours

A **General Studies** major enables students to take a wide variety  
of courses from many different departments. This can lead to a well-  
rounded liberal arts education. The major is not directed toward any  
particular vocation or certification. The emphasis of this major is on  
distribution rather than concentration. Each General Studies major is  
encouraged to develop a program of study according to her/his own  
needs, interests, and career goals. The selection of courses is largely left to  
the student. Students may *not* declare a second major and be registered  
for the General Studies major.

\*The five colleges are: 1) College of Business Administration; 2) College  
of Education; 3) College of Humanities and Fine Arts; 4) College of  
Natural Sciences; and 5) College of Social and Behavioral Sciences. See  
pages 5-8 for a list of the departments under each college.

(See page 47 for the *General Studies* program for registered nurses.)

## Humanities Major

The Humanities major requires a minimum of 120 total hours  
to graduate. This total includes Liberal Arts Core requirements (pages  
55-57) and the following specified major requirements, plus electives to  
complete the minimum of 120 hours. Liberal Arts Core courses included  
in major program requirements are distinguished by *italics*.

This is an interdisciplinary major offered by the College of  
Humanities and Fine Arts, and is under the jurisdiction of the dean of  
that college.

Required:

Humanities: 680:021; 680:022; 680:023; 680:192 .....12 hours  
Interdisciplinary courses in, or including, the humanities\* ..9 hours  
Courses in history, from any department .....6 hours  
Critical and analytical course.....3 hours  
Participatory course in creative or performing arts .....3 hours  
Electives in any of the above or other humanities areas .....9 hours  
42 hours

\*These courses may include seminars in the interpretation of texts, in  
philosophy of history, in aesthetics, in a theme or period, in a topic  
relating the humanities to the natural or social sciences, or other  
appropriate courses as available.

The student, with the consent of the Humanities Advisor, will outline  
a cohesive program of cross-disciplinary study around a chronological  
period, theme, culture, or other focus of the student's choice.

All reasonable variations on this program should be approved.

## Humanities Minor

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

This is an interdisciplinary minor offered by the College of  
Humanities and Fine Arts, and is under the jurisdiction of the dean of  
that college.

Required: a minimum of 21 hours with at least one course\* to be chosen  
from each of the following areas:

**Humanities:** 680:021; 680:022.

**English:**

English Language and Literature: 620:034.

**Arts (participatory):**

Communication: 48C:011.

Applied Music: 540:Nxx (instrument or voice).

Art: 600:002 or 600:004.

English Language and Literature: 620:070.

**Philosophy and World Religions:**

640:024; any one of 650:100,

650:101, 650:103 or 650:104.

**Social Science:**

Psychology: 400:118.

Sociology: 980:060.

Anthropology: 990:011.

**Interdisciplinary Studies:**

Individual Studies: 000:196\*\* (Interdisciplinary Readings).

Humanities: 680:192.

Science and Social Science majors may be excused from the  
requirement in their areas, and may substitute a course in any of the  
other specified areas or in history.

\*If any of these courses are taken by the student to meet the requirements  
of any other program (e.g., liberal arts core, major field, etc.), the student  
must elect another course in any of the above specified areas or in history,  
except that either 680:021 or 680:022 may be counted for the liberal arts  
core.

\*\*This course should be elected only if 680:192 is not relevant to the  
emphasis of the minor. Readings proposed by the student should act to  
integrate the work done in the minor.

## Individual Studies Major

The Individual Studies major requires a minimum of 120 total  
hours to graduate. This total includes Liberal Arts Core requirements  
(pages 55-57) and the following specified major requirements (under the  
discretion of the Individual Studies Program Coordinator), plus electives  
to complete the minimum of 120 hours. Liberal Arts Core courses

## Program Requirements Interdisciplinary

included in major program requirements are distinguished by *italics*.

### Required:

A coherent, interdisciplinary area of study.....	30-44 hours
Undergraduate thesis.....	6 hours
	36-50 hours

(Plus 25-39 hours of university electives or other major or minor credit.)

If it is found the university does not offer the major desired, it may be possible, through the Individual Studies Program, for a student to create her/his own program of study. The purpose of the Individual Studies major is twofold: 1) to enable a student to design an individualized major by selecting courses from several academic departments, and 2) to explore interdisciplinary areas of study before those areas are formally adopted as departmental or interdepartmental majors.

Students interested in this major should have at least one semester's experience in university study before applying. A student shall consult first with the Individual Studies Coordinator concerning the feasibility of designing an Individual Studies major in a particular area. If the university does not have faculty or curricular resources for the area requested, the student will be so advised. Also, if the student does not appear to be academically prepared, or if her/his plans are not sufficiently clear, specific steps to correct these problems will be recommended.

Once an advisor is appointed, the student and the advisor will develop a list of courses to comprise the proposed major, and an interdisciplinary faculty committee will be selected to take action on the specific program. In some cases, with the approval of the faculty advisor and the program coordinator, an extraordinary amount of independent study may be counted toward the major. In most cases, an undergraduate thesis will be required of this major.

## International Business Minor

The interdepartmental minor in International Business is available to College of Business Administration students majoring in Accounting, Business Teaching, Economics - Business Analysis emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate. The purpose of the minor is to provide a plan of study that builds upon the knowledge gained through business core and business major courses with respect to issues associated with operating within the global economy.

### Required:

World Affairs.....	3 hours
Geography: 970:040 or	
Political Science: 943:024	
International Business core.....	12 hours
Marketing: 130:161 or 130:177.	
Management: 150:189.	
Financial: 160:158 or 920:175.	
Economics: 920:136 or 920:143.	

International Experience.....	0 hours
Business, Interdepartmental: 100:169**.	

Electives (choose one of the following)..... 2-3 hours

Business, Interdepartmental: 100:155/CAP:155*	
Management: 150:161.	
Political Science: 943:119; 943:143; 943:145.	
Sociology: 980:167.	
Criminology: 982:162.	
or any additional course listed within the international business core above.	

17-18 hours

\* Either of these courses fulfill the Liberal Arts Core Capstone requirement.  
158

Other global perspective Capstone courses may be approved, by student request, to fulfill the requirements of this elective.

\*\* This 100:169 course requires the successful completion of an approved study abroad experience, or a departmental internship or cooperative education experience that includes a significant international component. Department internships or cooperative education credits that meet the requirements of the international experience can, by student request, be used to fulfill the elective requirement.

## International Business Minor (Non-Business Majors)

The interdepartmental minor in International Business (Non-Business Majors) is available to any non-business major. The purpose of this minor is to allow non-business majors to build a basic body of knowledge concerning business and business operations and expand this knowledge with respect to international business, trade, and commerce.

### Required:

World Affairs.....	3 hours
Geography: 970:040 or	
Political Science: 943:024	
Business Core.....	15 hours
Accounting: 120:030.	
Marketing: 130:101.	
Management: 150:100; 150:153.	
Economics: 920:024.	
International Business core.....	8-9 hours
Management: 150:189.	
International electives (choose two from the following):	
Business, Interdepartmental: 100:155/CAP:155*	
Marketing: 130:161; 130:177.	
International Experience.....	0 hours
Business, Interdepartmental: 100:169**.	

26-27 hours

\* Either of these courses fulfill the Liberal Arts Core Capstone requirement. Other global perspective Capstone courses may be approved, by student request, to fulfill the requirements of this elective.

\*\* This 100:169 course requires the successful completion of an approved study abroad experience, or a departmental internship or cooperative education experience that includes a significant international component. Department internships or cooperative education credits that meet the requirements of the international experience can, by student request, be used to fulfill the elective requirement.

**NOT** available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

**NOT** available to General Business Concepts minors.

## Leadership Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Leadership Studies minor is an interdisciplinary program that educates students about and for leadership in a democratic society. The minor provides an overview of diverse leadership theories, concepts, and issues; assessment of leadership styles and abilities; and practical experiences tailored to the students' abilities. It is open to any student; prior experience in leadership activities is not required.

Admission requires a cumulative GPA of 2.50 (or permission of director) and completion of one semester of college work (UNI or transfer).

Students who are pursuing the Leadership Studies minor or the Certificate in Leadership Foundations must have an overall GPA in the

core courses, including the internship, of 2.50 with no lower than a C in any one course.

**Required:**

- Leadership core courses: 680:010; 680:110; 680:188 .....7 hours
- Leadership internship: 680:169..... 2-3 hours
- Electives .....9 hours
  - A. Diversity — one course from approved list of courses on diversity.
    - Psychology: 400:060.
    - Social Work: 450:045.
    - Communication: 48C:151; 48C:153.
    - Humanities: 680:130; 680:156.
    - Social Science: 900:020.
  - B. Ethics — one course from approved list of courses on ethics.
    - Communication: 48C:128/CAP:128.
    - World Religions: 640:171.
    - Philosophy: 650:142; 650:172; 650:173/CAP:173; 650:174; 650:175.
  - C. General Elective — one course from approved list.
    - Management: 150:100; 150:153.
    - Social Work: 450:102.
    - Communication: 48C:071; 48C:121; 48C:141; 48C:144; 48C:151; 48C:153; 48C:173.
    - English Language and Literature: 620:104.
    - Humanities: 680:130.
    - Political Science: 940:189; 941:188; 942:150; 942:151.
    - History: 961:144; 961:150.
    - Sociology: 980:176.
    - Note: 48C:151, 48C:153, and 680:130 may count as either *diversity* elective or *general* elective for the minor.

Students may petition Director for Leadership Studies for a course not on the elective lists.

18-19 hours

## Russian and East European Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

This minor is offered by the College of Humanities and Fine Arts and the College of Social and Behavioral Sciences.

**Required:**

- Language:
  - Four semesters. Must include fourth semester Russian (770:012) or an equivalent fourth-semester course in another Slavic/East European language satisfied through, for example, transfer credit.
  - Also, see \* below ..... 12-20 hours\*
- History: 963:169 or 963:170 or 963:188.....3 hours
- Two of the following.....6 hours
  - Humanities/Literature: 680:121 or 770:031.
  - Political Science: 944:123 or 944:164.
- An additional literature or language class, with the approval of a REES advisor. A Russian/East European topics course or seminar, with the approval of a REES advisor.\*\*

18-29 hours\*\*\*

Study Abroad: Students are strongly encouraged to study abroad for at least one summer, preferably one semester. Study abroad may be used to satisfy program requirements for language or non-language course

work, with the approval of a REES advisor.

Transfer credit: Students seeking to use transfer credit to satisfy any program requirement may be required to produce past course syllabi for credit approval.

\*Students may also satisfy the language requirement through native or heritage (home-based) knowledge of a Slavic/East European language. Students wishing to satisfy the language requirement in this manner may have to complete a language placement exam. Finally, students who do satisfy the language requirement through native/heritage knowledge will be required to complete 9 hours of course work in lieu of the 12-20 hours of language study. This will be arranged with the student's REES advisor.

\*\*Several UNI departments (e.g., History) occasionally offer topics courses or junior-senior seminars on Central and Eastern Europe, and Eurasia. Consult a REES advisor each semester on these offerings.

\*\*\*The low range of 18 credit hours will apply only to students satisfying the language requirement through native or heritage (home-based) knowledge of a Slavic/East European language. (See \* note.) The low range for students satisfying the language requirement through normal class language study will be 21 credit hours.

## Women's and Gender Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Women's and Gender Studies is an interdisciplinary and multicultural program that engages in research and exploration concerning all areas of women's and men's experiences. Its unique perspective strengthens the abilities of students within any major to critically analyze theory and research emphasizing the importance of gender while including other essential categories of analysis such as race, class, sexuality, ethnicity, and nationality. This program is offered under the jurisdiction and general supervision of the Deans of the Colleges of Social and Behavioral Sciences and Humanities and Fine Arts. For more information, contact the Women's and Gender Studies office, Baker 170, 319-273-7102, or [www.uni.edu/womenstudies](http://www.uni.edu/womenstudies).

**Required:**

- Humanities: 680:040.....3 hours
- Social Science: 900:150..... 1 hour
- three of the following core electives .....9 hours
  - Psychology: 400:060.
  - Health Promotion and Education: 410:162.
  - Communication Studies: 48C:153.
  - English Language and Literature: 620:128.
  - World Religions: 640:162.
  - Humanities: 680:160.
  - Sociology: 980:129; 980:171.
  - History: 961:146; 963:161.

minimum of 6 hours from the elective lists with at least one course to be chosen from at least two of the three areas.....6 hours

**Social Sciences:**

- Educational Psychology: 200:140; 200:188.
- Design, Textiles, Gerontology and Family Studies:
  - 31F:010; 31F:020; 31F:057; 31F:150; 31F:153; 31F:157; 31T:114.
- Psychology: 400:173.
- Health Promotion and Education: 410:020; 410:128; 410:162.
- Leisure, Youth and Human Services: 430:030.
- Social Work: 450:041; 450:163; 450:173; 450:194.
- Science and Science Education: 820:140/CAP:140.
- Social Sciences: 900:020; 900:023; 900:195.

## Program Requirements

### Interdisciplinary

Political Science: 942:142.  
History: 961:120; 961:131; 961:142; 961:143;  
961:146; 961:150; 963:156; 963:161;  
964:176; 964:180.  
Sociology: 980:100; 980:105; 980:135; 980:138;  
980:156; 980:171; 980:177.  
Criminology: 982:123; 982:131.  
Anthropology: 990:011; 990:157; 990:161; 990:167.

#### Humanities:

Communication: 48C:108 or 48C:110;  
48C:113; 48C:122; 48C:123; 48C:142;  
48C:146; 48C:151; 48C:153; 48C:160; 48C:189.  
Theatre: 490:160.  
Art: 600:060; 600:180.  
English: 620:121; 620:123\*; 620:128.  
World Religions: 640:024; 640:162; 640:168.  
Philosophy: 650:151/CAP:151; 650:152.  
Humanities: 680:010; 680:110; 680:123; 680:128;  
680:130; 680:156; 680:160.  
French: 720:031.

#### Experiential:

Social Science: 900:195.

19 hours

\*Additional prerequisites may be required.

In courses with multiple sections, the section which indicates a Women's and Gender Studies Emphasis will count for the minor with written approval of the Director.

These electives may also include individual department's readings, topics, experimental courses, internships, and other courses, as well as courses sponsored by the Individual Studies Program that directly relate to Women's and Gender Studies. The electives selected must have the written approval of the director to be filed in the Office of the Registrar before the final completion and approval of the minor. Sections approved for Women's and Gender Studies classes are listed in the front of the Schedule of Classes.

## Master of Arts Degree Programs

### Major in Philanthropy and Nonprofit Development

The M.A. program in Philanthropy and Nonprofit Development is designed for individuals who have experience in the philanthropy and/or nonprofit areas. The degree will be solely offered through the Division of Continuing Education with extensive use of the Iowa Communication Network (ICN). The program is designed to offer professionals the opportunity to continue their study, advancing their knowledge while earning graduate credit in course work targeted toward the following objectives: (a) to develop and enhance professionals' skills and knowledge in the fundraising and nonprofit sectors; (b) to further students' understanding of ethical policy and legal issues as they relate to philanthropy and nonprofit development; (c) to advance students' knowledge of scholarly research, theories and models in the area of nonprofit organizational development, donor relations, grant writing, corporate/foundation relations, advocacy, public funding, and evaluation/accountability; and (d) to enhance students' mastery of skills in the aforementioned areas.

Students interested in this program must submit a completed Application for Admission to Graduate Study, three letters of recommendation, and transcripts of undergraduate and graduate credits to the program director. It is expected that students will have experience in the field prior to admission. Graduate information and application for

graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

This major is available on the **non-thesis** option only. A **minimum of 30 semester hours** of graduate course work is required, **of which a minimum of 21 hours of 200-level course work, including 3 hours of 430:299 is required.** Of these hours, 26 semester hours are prescribed below. The remaining 4 hours require research project/readings work, arranged through the program director.

#### Required:

Management: 150:262; 150:286 (1 hr.).....	4 hours
Psychology: 400:254 .....	2 hours
Leisure, Youth and Human Services: 430:220; 430:248; 430:249; 430:251 .....	12 hours
Communication Studies: 48P:182 .....	3 hours
English Language and Literature: 620:104 .....	3 hours
Public Policy: 950:220 .....	2 hours
Leisure, Youth and Human Services: 430:285 (Readings in Philanthropy and Nonprofit Development) .....	1 hour
430:299 (Research) .....	3 hours
	30 hours

### Major in Women's and Gender Studies

The M.A. in Women's and Gender Studies is a **thesis-only** program requiring a **minimum of 34 semester hours** of study; **15 hours of 200-level course work, including 6 hours of xxx:299, is required.** Additional non-program hours may be required, if courses on a student's program of study have prerequisites which instructors choose not to waive.

Successful completion of a final written comprehensive examination is required.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

The Women's and Gender Studies curriculum is designed to meet the needs of students who strive for analytic clarity and rigor in gender-focused research. Students may employ the skills in reflective and critical analysis as well as the broad base of knowledge that they obtain in the program to 1) prepare for a Ph.D. program with a disciplinary or interdisciplinary focus on gender or, 2) enhance leadership skills for a career in the public or private sector or, 3) satisfy strong intellectual interests and curiosity while pursuing advanced education in the liberal arts.

Through core courses and selected electives, students enrolled in the Master of Arts in Women's and Gender Studies will accomplish several objectives: examine theories concerning the social and historical constructions of gender; explore how gender defines relationships among women, among men, and between men and women; recognize that women's lives have been under-represented in traditional disciplines and investigate previously neglected materials in order to identify women's as well as men's roles in cultural or social endeavors; study, compare, and evaluate an array of disciplinary perspectives on gender, including, but not limited to, cross-cultural, economic, sociological, historical, and literary perspectives; identify intersections of gender with race, class, age, sexual identity, and ethnicity, both locally and globally, both in the present and in the past; and employ new methodological and critical approaches to materials customarily treated in other ways, revising the content and assumptions of particular disciplines to address gender more effectively.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and

application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Admission to the program is competitive. Detailed information on admissions requirements and procedures may be obtained from the Director of the Graduate Program in Women's and Gender Studies.

**Required:**

Humanities: 680:289.....	3 hours
Humanities: 680:290.....	1 hour
Sociology: 980:171.....	3 hours
History: 961:146 or 963:161.....	3 hours
English: 620:206 or	
Philosophy: 650:250 .....	3 hours
Research: xxx:299.....	6 hours
Research Methodology: .....	3 hours
With approval of thesis advisor, one course from the following:	
Education, Interdepartmental: 190:305.	
Measurement and Research: 250:301.	
Psychology: 400:239.	
Communication: 48C:113; 48C:180; 48C:183; 48C:189; 48C:222.	
English Language and Literature: 620:161; 620:201.	
History: 960:290.	
Sociology: 980:160; 980:165; 980:178 or 990:178; 980:201.	
Electives .....	<u>12 hours</u>
	34 hours

With the approval of the thesis advisor, the student individually designs an elective sequence, selecting courses from the humanities, fine arts, social and natural sciences that best contribute to the student's thesis project.

A Graduate Certificate in Women's and Gender Studies is also available (see page 164).

For more information contact the Women's and Gender Studies Office, Baker 168, 319-273-7102, or [www.uni.edu/womenstudies](http://www.uni.edu/womenstudies).

## Master of Business Administration Degree Program

Graduate study in business at UNI provides a broad-based, integrated program which emphasizes the functional areas of business in order to provide the graduate with a balance between theoretical knowledge and practical business operations. The M.B.A. curriculum is designed to meet the needs of students with undergraduate backgrounds in the liberal arts, sciences, engineering, as well as those with degrees in business. The M.B.A. program is accredited by AACSB International, the primary accrediting organization on management education.

The plan of study prescribed for the degree is structured to develop graduates who will have acquired: 1) an understanding of the theoretical and practical aspects of the process of policy formulation and implementation; 2) a comprehension of environmental factors-economic, legal, social, and political-which affect the individual in the performance of managerial responsibilities; 3) an understanding of analytical techniques and the use of quantitative data in the administration of business controls; 4) the ability to communicate ideas effectively in oral and written form; and 5) a basic knowledge of selected functional areas of business administration.

Admission to the Master of Business Administration program is dependent upon the quality of the applicant's undergraduate record, the score on the Graduate Management Admission Test (GMAT), and writing skills demonstrated on the addendum to the application. The GMAT must be taken prior to acceptance into the program.

This program is designed to qualify men and women for creative leadership in business. This program is available on the **non-thesis** option only. Students who enter the program with the undergraduate requirements of a baccalaureate degree in one of the areas of business will normally require **31 semester hours** to complete the program; those who enter the program with an undergraduate degree in an area other than business will be required to complete some pre-MBA courses in business or show that they have completed equivalent courses in previous academic work. **A minimum of 12 hours of 200-level course work is required.** Candidates for the degree are also required to successfully complete and pass a business capstone experience at the end of their program of study. The result of this experience is reported in a paper and filed in the M.B.A. office.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Detailed information for the M.B.A. may be obtained from the College of Business Administration, UNI or on the M.B.A. Web site [www.cba.uni.edu/mba](http://www.cba.uni.edu/mba).

**Required:**

Accounting: 120:262 .....	3 hours
Marketing: 130:263.....	3 hours
Management: 150:249; 150:250; 150:262; 150:272; 150:274; 150:276 .....	16 hours
Finance: 160:266 .....	3 hours
Economics: 920:260 .....	3 hours
Topics: 3 hours from the following .....	3 hours
Accounting: 120:280.	
Marketing: 130:280.	
Management: 150:280.	
Finance: 160:280.	
Economics: 920:280.	
	31 hours

## Master of Public Policy Program

The Master of Public Policy is a professional interdisciplinary degree program providing specialized and advanced training for students wishing to assume roles as policy analysts, principally in the governmental and nonprofit sectors of society.

Core courses in the program provide thorough coverage of the contributions of political science, economics, and history to the analysis of public policy. The core also includes methods courses that provide training in the rigorous methods of policy analysis required of professionals in the field.

Focus courses allow a student to develop an understanding of a particular substantive or methodological area of policy analysis. Continuing participation in seminars allows discussion of current practice and development, provides a forum for on-going discussion, and includes philosophical orientation to the ethical questions which arise in policy contexts. An internship with a public policy organization introduces the student to the professional environment and allows application of theory and methods to actual policy problems.

Admission to the M.P.P. program is competitive. Entering students are expected to have acquired introductory level knowledge, from their undergraduate training, of statistical methods, micro-economics, and American governmental process. Courses are available outside the degree program, for students who lack such background (e.g., 920:054, 942:014, and 980:080). The M.P.P. is available on the **non-thesis** option, and requires **41-45 semester hours. A minimum of 12 hours of 200-level course work is required.**

## Program Requirements

### Interdisciplinary

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Philosophy: 650:245 .....	2 hours
Economics: 920:117; 920:125 .....	6 hours
Public Policy: 950:205 (3 hrs.); 950:208; 950:260; 950:275 .....	12 hours
Political Science: 942:153; 942:173 .....	6 hours
History: 960:225 .....	3 hours
Focus area courses: as approved by advisor .....	9 hours
Internship: 950:281 .....	4 hours
Prerequisites: 950:275 and 942:173 or an approved substitute. This requirement may be waived at the discretion of the program director.	
Electives: as approved by advisor .....	<u>3 hours</u>
	41-45 hours

M.P.P. students, in consultation with their faculty advisors, select a focus area and the course work needed to complete their study of public policy. They may choose either a substantive area of public policy (for example, urban policy, environmental policy, human services policy, criminal justice policy) or courses that provide them with additional training in public policy or methods of policy analysis.

In 950:208, with the support of the instructor and benefitting from interaction with other students, each student prepares a research paper within the focus area.

If focus courses have prerequisites which instructors choose not to waive, these courses will be in addition to the above degree requirements.

The internship may be undertaken during the summer following the first or second year of classes or during any other approved period.

Successful completion of a final written and oral comprehensive examination is required.

## Accelerated Master of Public Policy Program

1. Upon declaration of an undergraduate major, any UNI student may apply to the director of the program for entry into the preparatory phase of the Accelerated M.P.P. program. A student must have at least a 3.40 GPA in order to be considered for this program.
2. The following four courses are eligible to be included in the preparatory phase of the program: 920:117, 920:125, 942:153, and 942:173. All of these courses have prerequisites which must be completed before the student may enroll in them. Other courses may be included with the approval of the director, and with the approval of the department in which the course is taught.
3. In order to count one of these courses toward accelerated completion of the M.P.P., the student must sign a contract with the instructor to do the same extra work that is required by that instructor for students to receive graduate credit for the course. No graduate credit will be awarded, but the student will be allowed to waive the course upon entering the M.P.P. program.
4. In order to count one of these courses toward the accelerated M.P.P., the student must receive a minimum grade of B in the class. In addition, to be considered for admission into the graduate portion of the accelerated M.P.P., students must maintain a minimum of 3.00 GPA in all of their undergraduate work.
5. After completion of the preparatory phase, the student will be considered for admission to the graduate portion of the accelerated

M.P.P. program. Enrollment in the graduate program requires the completion of the B.A. degree.

6. In order to complete the M.P.P. in one additional year after the B.A., students will also need to enroll in 7 hours of graduate work in the final semester of their senior year, as currently provided for in this catalog (see pages 43, 61-62).
7. All other degree requirements for the regular M.P.P. program also apply to the Accelerated Program.

## Master of Science Degree Programs

### Major in Environmental Science/Technology and Health

The curriculum in the Environmental Science/Technology and Health program provides academic and research opportunities for students seeking terminal master's degrees. The curriculum emphasizes environmental related course work in the various disciplines (biology, chemistry and biochemistry, geology, industrial technology, physics, and environmental health) as well as additional courses selected from university offerings at large to assure a high level of competence in the student's area of major interest. Working in cooperation with the sciences, industrial technology, and health departments, graduate students are afforded excellent opportunities for field, laboratory, and industrial research through association with a large staff of scientists studying environmental issues.

Students interested in this program must submit a completed Application for Admission to Graduate Study and be admitted to the program. Applications should include three letters of recommendation and transcripts of undergraduate and graduate credits. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Students wishing to pursue the Environmental Technology Emphasis must hold or be eligible to obtain a bachelor's degree in engineering or industrial technology. UNI students may enter this program at the end of the junior year under the B.A./M.S. or B.S./M.S. programs offered in biology, chemistry, geology, or physics (see below).

The Graduate Record Examination (General Test) **is not** required for admission to the program.

This program is available on the **thesis** option only. A **minimum of 30 semester hours** is required. A **minimum of 18 hours of 200-level course work is required**. Successful completion of a final written and oral comprehensive examination is required. Beyond the required courses, the graduate advisory committee for each student will select additional course work tailored to the interests and research of the student.

#### Environmental Science Emphasis:

Required courses:

Environmental Science: 830:200; 830:235; 830:250 .....	9 hours
Environmental Science seminar: 830:289 .....	3 hours
Research: 830:299 .....	6-9 hours
Electives .....	<u>9-12 hours</u>
	30 hours

#### Environmental Technology Emphasis:

Required courses:

Environmental Science: 830:200 or 830:235 or 830:250 .....	3 hours
Environmental Science seminar: 830:289 .....	3 hours
Research: 830:299 .....	6-9 hours
Electives .....	<u>15-18 hours</u>
	30 hours



### Environmental Health Emphasis:

Required courses:

Environmental Science: 830:165; 830:200; 830:235 .....	9 hours
Environmental Science seminar: 830:289 .....	3 hours
Health Promotion and Education: 410:293 .....	3 hours
Research: 830:299 .....	6-9 hours
Electives .....	6-9 hours
	30 hours

## Combined B.A./M.S. or B.S./M.S. Environmental Science/Technology and Health

Students interested in the B.A./M.S. or B.S./M.S. in Environmental Science/Technology and Health program should declare their intent by the middle of the junior year. An Application for Admission to Graduate Study should be completed and the student's interest in this program indicated on the form itself.

Once admitted to the program, undergraduate students (who are classified as seniors), may register for **graduate credit as a senior, with the approval of the department head** (see guidelines on pages 43, 61-62). The student presents a signed Student Request (with appropriate signatures), when registering for graduate credit as a senior. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester or 8 hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the course work is taken. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the college indicated or the Office of the Registrar, which serves as the centralized registry.

### College of Business Administration

#### Certificate in International Business, Culture, and Language

The Certificate in International Business, Culture, and Language is available to College of Business Administration students majoring in Accounting, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate and to students completing the General Business Concepts minor. The purpose of this certificate is to encourage students to seek language and cultural knowledge in order to build a foundation for understanding the global environment in which business operates. For more information students should contact CBA Student Advising and Career Services, CBB 321B. To enroll in this program students must declare their intent on a Declaration of Curriculum form. The form may be obtained in CBB 321B.

1. International Business .....3 hours

2. Management: 150:189.
2. Cultural and Political Perspectives .....3 hours  
One of the following:  
Political Science: 943:024\*.  
Geography: 970:040\*.  
Sociology: 980:001\*.  
Anthropology: 990:011\*.
3. Foreign Language and History ..... 5-24 hours  
Select one of the language options below.  
Note: A student's native language cannot be used to meet the language requirement for the certificate.  
CHINESE (8-18 hours)  
710:001\*\*; 710:002\*\*; 710:011.  
One of the following: 640:130; 640:132; 680:124\*;  
944:162; 964:183; 964:187; 980:168; 990:157.  
FRENCH (7-24 hours)  
720:001\*\*; 720:002\*\*; 720:003\*\*; 720:004\*\*;  
720:011; 720:012.  
One of the following: 720:031\*; 720:051;  
720:061; 963:174.  
GERMAN (7-18 hours)  
740:001\*\*; 740:002\*\*; 740:003\*\*; 740:004\*\*;  
740:011; 740:012.  
One of the following: 740:013; 740:014; 740:031\*;  
740:111; 740:132; 740:148/CAP:148; 962:171;  
963:172.  
RUSSIAN (8-20 hours)  
770:001\*\*; 770:002\*\*; 770:003\*\*; 770:004\*\*;  
770:011; 770:013.  
One of the following: 680:121\*; 770:012; 770:014;  
770:031\*; 944:164; 963:169; 963:170.  
SPANISH (7-20 hours)  
780:001\*\*; 780:002\*\*; 780:011.  
One of the following: 680:123\*; 780:053;  
780:055; 780:152; 790:031\*; 944:167; 964:180.  
PORTUGUESE (5-17 hours)  
790:001\*\*; 790:002\*\*; 790:010\*\*; 790:020\*\*;  
790:060.  
One of the following: 680:123\*; 790:031\*;  
790:101; 944:167; 964:180.  
ENGLISH (9 hours)  
One of the following: 900:023\*; 942:014\*.  
Two of the following: 620:040; 620:043; 620:053;  
620:121; 620:124; 620:151; 961:120; 961:134;  
961:142; 961:144; 961:145; 961:150.

\*Credit hours in these Liberal Arts Core courses may be applied toward the completion of the Liberal Arts Core requirement and the completion of this certificate program.

\*\*Students who received credit toward the foreign language competency requirement for UNI graduation from satisfactory performance in high school language courses or students who can pass an equivalency examination do not need to take these courses.

#### SUMMARY:

1. International Business .....3 hours
2. Cultural and Political Perspectives .....3 hours
3. Foreign Language and History ..... 5-24 hours  
Chinese: 8-18 hours  
French: 7-24 hours  
German: 7-18 hours  
Russian: 8-20 hours  
Spanish: 7-20 hours

## Program Requirements Interdisciplinary

Portuguese: 5-17 hours

English: 9 hours

(Note: A student's native language cannot be used to meet the requirements of this certificate.)

11-30 hours

## College of Humanities and Fine Arts

### Certificate in Leadership Foundations

The Certificate in Leadership Foundations is an interdisciplinary program that educates students about and for leadership in a democratic society. This certificate provides an overview of diverse leadership theories, concepts, and issues, and assessment of one's leadership styles and abilities. It is open to any student; prior experience in leadership activities is not required. A minor in leadership studies is also available and carries a leadership internship.

Prerequisite for admission: 2.50 GPA or permission of director.

Students who are pursuing the Leadership Studies minor or the Certificate in Leadership Foundations must have an overall GPA in the core courses, including the internship, of 2.50 with no lower than a C in any one course.

Required:

Humanities: 680:010; 680:110; 680:188 (2 hrs.) .....8 hours  
Electives .....6 hours

two courses from the list approved for the Leadership  
Studies minor (see page 158) for a total of 6 hours.

14 hours

### Graduate Certificate in Women's and Gender Studies

The Graduate Certificate in Women's and Gender Studies is offered by the College of Humanities and Fine Arts and the College of Social and Behavioral Sciences.

The Graduate Certificate in Women's and Gender Studies (WGS) provides students the opportunity to be exposed to the rapidly expanding interdisciplinary scholarship on women's and gender studies. This program is designed for students currently enrolled in a graduate program at UNI who are seeking a graduate degree in any discipline.

The WGS graduate certificate requires 12 credit hours, which must be successfully completed during a five year period to earn the certificate. At least nine hours have to be completed at UNI and at least six of the 12 hours have to be at the 200 level. Courses fulfilling the certificate program may be used to meet the requirements in a degree program in accordance with the policies of the Graduate College.

Curriculum requirements consist of one core course and a minimum of nine credit hours of electives. Students must take at least six credit hours of elective course work outside the degree-granting program. Students may petition the Director of WGS to add a relevant course.

For more information, contact the Women's and Gender Studies office, Baker 170, 319-273-7102, or [www.uni.edu/womenstudies](http://www.uni.edu/womenstudies).

Required:

English Language and Literature: 620:206 or

Philosophy: 650:250 or

Humanities: 680:289 or

Sociology: 980:171 .....3 hours

Electives: .....9 hours

(Must choose one course from the Social Sciences

Category A, one course from the Humanities Category B,

and one course from either A, B, or the Experimental Category C.)

**Category A: Social Sciences**

Educational Psychology: 200:188.

Design, Textiles, Gerontology, and Family Studies:

31F:145; 31T:114.

Health Promotion: 410:128; 410:162.

Political Science: 942:142.

History: 961:146; 963:161.

Sociology: 980:131; 980:135; 980:171.

#### Category B: Humanities

Communication Studies: 48C:108; 48C:113; 48C:153.

English Language and Literature: 620:128; 620:206.

World Religions: 640:162; 640:168.

Philosophy: 650:151; 650:250.

Humanities: 680:156; 680:160; 680:289.

#### Category C: Experimental

Social Science: 900:195 (3 hrs.).

Practicum that has a gender-focus and is advised by  
a WGS faculty member.

12 hours

## College of Social and Behavioral Sciences

### Conflict Resolution Certificate

Conflict and dispute can be viewed on both the macro and micro system levels. It can be intrapersonal or interpersonal, as in the area of marriage or family, or organizational, as in relations, racial and ethnic or interpersonal concerns. The Certificate in Conflict Resolution provides knowledge and understanding of conflict, as well as conflict management or resolution. The certificate's curriculum is designed for students who are working toward or who have already completed a baccalaureate degree, and whose anticipated careers may provide opportunities for understanding and conducting conflict resolution. Examples of related majors would include (but not necessarily be limited to) Social Work, Sociology, Anthropology, Environmental Science, Criminology, Communication, Business Management, Public Administration, Education, Public Policy, and Political Science.

Required:

Social Work/Sociology/Anthropology: 450:102 or 980:102  
or 990:102

OR

Communication Studies: 48C:148

OR

Social Science: 900:080 .....3 hours

Electives: select four courses from the lists below .....12 hours

(Courses are listed under separate tracks to guide your  
preference of micro or macro preparation. At least one  
course must be selected from each track):

#### Micro Systems track courses:

Teaching: 280:170.

Design, Textiles, Gerontology, & Family Studies: 31F:020;  
31F:153.

Psychology: 400:060.

Social Work: 450:143; 450:163\*.

Communication Studies: 48C:136\*; 48C:153.

#### Macro Systems track courses:

Social Work/Social Science: 450:041 or 900:041.

Social Science: 900:020.

Political Science: 943:125; 943:126; 944:123.

History: 963:157.

Geography: 970:100; 970:116.

15 hours

Choice of courses and subsequent course prerequisites *may* increase

the length of this program. A minimum grade of C is required in all courses taken for the certificate.

\*450:163 has a prerequisite of 980:001. 980:001 may be used to satisfy Category 5A of the Liberal Arts Core.

48C:136 has a prerequisite of 48C:004.

## Iowa Lakeside Laboratory

### (Interinstitutional Program)

[www.continuetolearn.uiowa.edu/lakesidelab/](http://www.continuetolearn.uiowa.edu/lakesidelab/)

Peter J. van der Linden, Executive Director, Iowa Lakeside Laboratory

### Participating Faculty

University of Northern Iowa: John R. Groves (Earth Science), Thomas Hockey (Earth Science) Lee S. Potter (Earth Science), Daryl D. Smith (Biology).

Iowa State University: Bonnie Bowen (Director of Academics and Research), Lee Burras (Agronomy).

University of Iowa: John F. Doershuk (Anthropology), Diana Horton (Biological Sciences).

For additional information see pages 11 and 305 in this publication or the Iowa Lakeside Laboratory Bulletin.

## Department of Management

### (College of Business Administration)

[www.cba.uni.edu/management](http://www.cba.uni.edu/management)

D. Cyphert, Interim Head. B. Allen, S. Kaparathi, R. Karsten, J. Mattingly, T. McAdams, A. Mitra, F. Moussavi, H. Noonan-Day, P. Padmanabhan, D. Power, A. Queiroz, B. Ratchford, R. Roth, C. Schrage, G. F. Smith, S. Sorenson, M. Spencer, S. Wartick, L. Wilson, D. Wood, M. Wurtz.

The Department of Management offers the following undergraduate programs and program certificate. Specific requirements for these programs are listed within this Department of Management section in the following order:

#### Undergraduate Majors (B.A.)

- Management
- Management Information Systems
- Business Teaching

#### Minors

- Business Communication
- Business Teaching
- General Business Concepts

#### Program Certificate

- Training and Development in Business Certificate

**Note:** Students majoring in Management, Management Information Systems (MIS) and Business Teaching must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Student Advising and Career Services Office in the College of Business Administration or at [www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm](http://www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm). Prior to completion of the admission requirements, students may sign an intent to major in one of these areas and be classified as a prospective (pre)major. Pre-

Management, Pre-MIS, or Pre-Business Teaching majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Students majoring in Management are not permitted to declare a double major within the College of Business Administration (the Economics/General and Economics/Quantitative Techniques majors are excepted). Management majors may declare a minor within the CBA, but the CBA minor selected must be one of those designated for business majors. Also, not more than one emphasis area may be declared in Management.

Students majoring in Business Teaching and MIS may declare a double major and/or major and minor within the College of Business Administration, subject to the regulations imposed by those CBA departments affected. Business Teaching and MIS majors minoring within the CBA must select minors designated for business majors.

To graduate with a major in Management, Management Information Systems, or Business Teaching from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted outside the College of Business Administration. A student must earn a 2.20 cumulative grade point average at UNI; and earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI. In addition, Business Teaching majors must complete a total cumulative and cumulative UNI GPA of 2.50 or better. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

The Management Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Student Advising and Career Services Office (CBB 321B) in the College of Business Administration.

## Bachelor of Arts Degree Programs

### Management Major

The Management major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours
Finance: 160:151 .....	3 hours
Economics: 920:020; 920:053; 920:054; 920:070 .....	12 hours

Required:

Management: 150:163; 150:165 .....	6 hours
Emphasis requirements (choose one area of emphasis) .....	12 hours

57 hours\*

\*In addition to the required 57 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## Program Requirements Management

### Emphases:

#### 1. Business Administration

Group I—Choose two of the following three areas:

- a) 150:145.
- b) 150:161 or 150:164.
- c) 150:119 or 150:166.

Group II—Choose one of the following courses:

- a) 150:113 or 150:114.
- b) 150:187.
- c) 150:189.
- d) 150:174.

Group III—Choose one of the following or any additional course from Group I or Group II:

Accounting: 120:129 or 120:131.

Marketing: 130:106, 130:153, or 130:177.

Finance: 160:152, 160:158, or 160:161.

Economics: 920:113, 920:160, or 920:175.

#### 2. Human Resource Management

Required:

Management: 150:105; 150:166; 150:168.

Plus three hours to be selected from:

Management: 150:116; 150:130; 150:187.

#### 3. Supply Chain and Operations

Required:

Marketing: 130:161.

Management: 150:161; 150:164; 150:167.

## Management Information Systems Major (Extended Program)

The Management Information Systems major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....6 hours

Marketing: 130:101 .....3 hours

Management: 150:080; 150:100; 150:153; 150:154;

150:175 .....15 hours

Finance: 160:151 .....3 hours

Economics: 920:020; 920:053; 920:054; 920:070 .....12 hours

Required courses:

Management: 150:032; 150:034; 150:112; 150:120;

150:125; 150:140 .....18 hours

Electives (managerial): 3 hours from the following .....3 hours

Management: 150:113; 150:130; 150:163; 150:165.

Electives (technical): 3 hours from the following .....3 hours

Accounting: 120:136.

Management: 150:127; 150:128; 150:190.

Computer Science: 810:161 (without lab).

63 hours\*

\*In addition to the required 63 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## Business Teaching Major (Extended Program)

The Business Teaching major requires a minimum of 124 total hours to graduate. This total includes Liberal Arts Core requirements

(pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, to complete the minimum of 124 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....6 hours

Marketing: 130:101 .....3 hours

Management: 150:080; 150:100; 150:153; 150:154;

150:175 .....15 hours

Finance: 160:151 .....3 hours

Economics: 920:020; 920:053; 920:054; 920:070 .....12 hours

Required:

Marketing: 130:170 .....3 hours

Management: 150:113; 150:117; 150:191 .....7 hours

Finance: 160:055 .....3 hours

52 hours\*

\*In addition to the required 52 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core. 150:113 has a prerequisite of 620:005 or 620:015, either of which will satisfy Category 1A of the Liberal Arts Core. Business Teaching Majors may substitute **both** 920:053 **and** 920:054 for 920:024 to satisfy Category 5B of the Liberal Arts Core.

The Professional Education Requirements for the Business Teaching major include 30 hours in the following courses: 200:017; 200:030; 200:128; 200:148; 220:150; 250:150; 260:119; 280:170; and 280:138.

## Minors

### Business Communication Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Business Communication minor is interdisciplinary in nature and offered jointly by the College of Business Administration and College of Humanities and Fine Arts. It is under the jurisdiction of the Department of Management and the Department of Communication Studies. The minor requires a 15-hour core plus 5-6 hours from one of three emphases.

Required core:

Communication: 48C:071; 48C:132 .....6 hours

Journalism: 48J:007 .....3 hours

Management: 150:080

OR

English Language and Literature: 620:077 .....3 hours

English Language and Literature: 620:102 or 620:104

or 620:105 .....3 hours

Required: 5-6 hours from one of three emphases below ..... 5-6 hours

20-21 hours

### Emphases-

#### Business:

Management: 150:113; 150:114.

OR

#### Communication:

Two of the following:

Communication: 48C:031; 48C:139 or 48C:141; 48C:148\*.

OR

#### Journalism and Public Relations:

Two of the following:

Journalism: 48J:071\*; 48J:172\*; 48J:176\*.

Public Relations: 48P:173\*; 48P:184.

\*These courses require additional prerequisites.

**Note:** When declaring this minor students must:

- have a 2.70 cumulative GPA
- have satisfactorily completed Categories 1A and 1B of the Liberal Arts Core.

Available to all UNI majors.

## **Business Teaching Minor**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101; 130:170 .....	6 hours
Management: 150:080; 150:100 or 150:101; 150:113; 150:117; 150:191 .....	13 hours
Finance: 160:055 .....	3 hours
Economics: 920:024 or both 920:053 and 920:054* .....	3-6 hours 31-34 hours

\*Category 5B of the Liberal Arts Core may be satisfied by taking **both** 920:053 **and** 920:054.

## **General Business Concepts Minor**

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Accounting: 120:030 .....	3 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153 .....	9 hours
Economics: 920:024 or equivalent; 920:070 .....	6 hours 21 hours*

**NOT** available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

\*In addition to the required 21 hours, 920:070 has as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## **Expanded Career Option for Secondary Teacher Licensure**

(Available to non-teaching business majors only.)

Majors in Accounting, Economics: Business Analysis, Finance, Management, Management Information Systems, Marketing, and Real Estate in the College of Business Administration have the option of receiving secondary teaching licensure to teach Business All 5-12. A student may complete this option by taking the required licensing courses as general university electives. The total number of hours required for licensure will be 43. This will expand the student's program beyond the normal eight semesters. Specific licensure requirements and information about this expanded career option may be obtained from the Department of Management.

## **Other Licensure Options**

Additional vocational licensure is available in multi-occupations.

## **Program Certificate**

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has

completed a program approved by the university. For information on the following program certificate, contact the Department of Management or the Office of the Registrar, which serves as the centralized registry.

## **Training and Development in Business Certificate**

Required:

Management: 150:113; 150:116; 150:119*; 150:130 .....	12 hours
Electives from the following .....	3 hours
Management: 150:169**; 150:179** .....	15 hours***

\*Graduate students must take 150:262 instead of 150:119. 150:262 has prerequisites of consent of MBA Director and 150:153 or equivalent.

\*\*150:169 or 150:179 must be taken only after taking 150:116 or 150:130. 150:187 may be used as a substitute for 150:169 or 150:179, with consent of instructor. 150:187 requires additional prerequisites.

\*\*\*In addition to the required 15 hours, 150:113 has as a prerequisite 620:005 or 620:015, either of which will satisfy Category 1A of the Liberal Arts Core

## **Department of Marketing (College of Business Administration)**

**[www.cba.uni.edu/marketing](http://www.cba.uni.edu/marketing)**

S. Corbin, Interim Head. M. Bunker, D. Clayson, K. Iyer, M. Klassen, K. Porter, K. Rajendran, M. Rawwas.

The Department of Marketing offers the following undergraduate programs and program certificates. Specific requirements for these programs are listed within this Department of Marketing section in the following order:

### **Undergraduate Majors (B.A.)**

Chemistry-Marketing  
Marketing

### **Minor**

Marketing (Non-Business Majors)

### **Program Certificates**

Certificate in Entrepreneurship  
Certificate in Marketing Research and Consulting

**Note:** Students majoring in Marketing must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Student Advising and Career Services Office in the College of Business Administration or at [www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm](http://www.CBA.uni.edu/dbweb/pages/students/advising-policies.cfm). Prior to completion of the admission requirements, students may sign an intent to major in Marketing and be classified as a prospective (pre)major. Pre-Marketing majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Marketing majors *may* declare a double major, double minor, and/or major and minor within the College of Business Administration, subject to the regulations imposed by those CBA departments affected. Marketing majors minoring within the CBA must select minors designated for business majors. Marketing majors may not declare more than one emphasis in Marketing.

To graduate with a major in Marketing from the College of Business

## Program Requirements

### Marketing

Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. In addition, a minimum of nine graded hours must be earned in 100-level, UNI Marketing courses. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted as outside the College of Business Administration. A student must earn a 2.20 cumulative grade point average at UNI; and earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

The Marketing Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Student Advising and Career Services Office (CBB 321B) in the College of Business Administration.

## Bachelor of Arts Degree Programs

### Chemistry-Marketing Major

The Chemistry-Marketing major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This program is an interdisciplinary major offered by the Department of Chemistry and Biochemistry and the College of Business Administration, and is under the jurisdiction of the Department of Chemistry and Biochemistry. The Department of Chemistry and Biochemistry is responsible for advising students enrolled in the major. Required for the major are 24-27 semester hours in chemistry and biochemistry and 24 hours of business for a total of 48-51 hours. See page 98 for complete details of the major program.

### Marketing Major

The Marketing major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required business core:

Accounting: 120:030; 120:031 .....	6 hours
Marketing: 130:101 .....	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175 .....	15 hours
Finance: 160:151 .....	3 hours
Economics: 920:020; 920:053; 920:054; 920:070 .....	12 hours

Required:

Marketing: 130:106; 130:108; 130:191 .....	9 hours
Marketing emphasis area (select one emphasis area below).....	9 hours
	57 hours*

#### 1. Marketing Management

Required: (6 hours)

130:131; 130:177.

Marketing electives: (3 hours)

130:142; 130:150; 130:153; 130:160; 130:161; 130:166; 130:169;

130:170; 130:175; 130:178; 130:180.

#### 2. Distribution and Logistics

Required: (6 hours)

130:161; 130:166.

Marketing electives: (3 hours)

130:131; 130:142; 130:150; 130:153; 130:160; 130:169; 130:170;  
130:175; 130:177; 130:178; 130:180.

#### 3. Advertising

Required: (6 hours)

130:150; 130:160.

Marketing electives: (3 hours)

130:131; 130:142; 130:153; 130:161; 130:166; 130:169; 130:170;  
130:175; 130:177; 130:178; 130:180.

#### 4. Sales

Required: (6 hours)

130:153; 130:178.

Marketing electives: (3 hours)

130:131; 130:142; 130:150; 130:160; 130:161; 130:166; 130:169;  
130:170; 130:175; 130:177; 130:180.

\*In addition to the required 57 hours, both 920:020 and 920:070 have a prerequisite of either 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core.

## Minors

### Marketing Minor (Non-Business Majors)

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Marketing: 130:101* .....	3 hours
Economics: 920:024 or 920:053 .....	3 hours
Marketing electives: three courses from the following.....	9 hours
130:106; 130:131; 130:142; 130:150; 130:153; 130:160; 130:161; 130:166; 130:170; 130:177; 130:178; 130:180.	

Business electives: two courses from the following .....6 hours

Accounting: 120:030.

Management: 150:153.

Finance: 160:055

21 hours

**NOT** available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

\*130:101 has a prerequisite of either 920:024 or 920:053. 920:024 or **both** 920:053 **and** 920:054 will satisfy Category 5B of the Liberal Arts Core.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Marketing or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Entrepreneurship

The Certificate in Entrepreneurship is open to **all** majors.

The purpose of the program is to engage students in active participation in the development of entrepreneurial enterprises. They will do this through a combination of traditional course work specifically directed to entrepreneurial ventures and participation in an entrepreneurial enterprise experience through the development of a business plan for a new venture and an experiential project.

For more information, students should contact CBA Student Advising and Career Services, CBB 321B. To enroll in this program students must declare their intent on a Declaration of Curriculum form. The form may be obtained in CBB 321B.

Required:

Business Administration, Interdepartmental: 100:040\* .....3 hours  
Marketing: 130:101; 130:170; 130:175 .....9 hours  
Economics: 920:024\*\* ..... 3 hours  
15 hours

\*Students may substitute 120:030, 120:031, 160:151, 800:072, and 920:070 for 100:040.

\*\*920:053 and 920:054 will substitute for 920:024.

## Certificate in Marketing Research and Consulting

Required:

Marketing Research: 130:108\* .....3 hours  
Marketing: 12 semester hours of Professional Development Training as a Program Associate with Strategic Marketing Services. Credits must be gained through any combination (maximum of 6 credit hours per semester) of the following marketing courses: 130:169; 130:179; 130:186 .....12 hours

Electives: one of the following .....3 hours

Marketing: 130:106; 130:142; 130:177; 130:178; 130:191. 18 hours

\*130:108 has prerequisites of 920:024 or 920:053, 130:101, 150:080, 800:072 or 800:092, 920:020, and 920:070. Taking 800:072 or 800:092 will satisfy Category 1C of the Liberal Arts Core. Non-business majors who take 920:024 or **both** 920:053 **and** 920:054 will satisfy the requirements for Category 5B of the Liberal Arts Core.

For more information on this certificate, students should contact the Director of Strategic Marketing Services, CBB 5, and the Marketing Department, CBB 338.

## Department of Mathematics

### (College of Natural Sciences)

[www.math.uni.edu/](http://www.math.uni.edu/)

J. Ridenhour, Head. R. Campbell, M. Ecker, J. Haack, T. Hitchman, E. Hughes, S. Kirmani, M. Lee, L. Leutzing, B. Liu, S. Luo, C. Miller, D. Mupasiri, G. Nelson, G. Neumann, J. Noh, V. Oleson, M. Prophet, E. Rathmell, V. Rayevskaya, J. Ribando, S. Riehl, D. Shaw, N. Silkin, M. Sodom, A. Stanley, B. Stevens, D. Thiessen, B. Townsend, J. Wilkinson.

The Department of Mathematics offers the following undergraduate and graduate programs, and program certificate. Specific requirements for these programs are listed within this Department of Mathematics section in the following order:

#### Undergraduate Majors (B.A.)

Mathematics  
Mathematics—Computer Science Emphasis

Mathematics—Statistics and Actuarial Science  
Mathematics—Teaching

#### Minors

Mathematics  
Mathematics—Teaching  
Mathematics (K-8)—Teaching  
Statistics and Actuarial Science

#### Graduate Majors (M.A.)

Mathematics  
Mathematics  
Secondary Teaching  
Mathematics for the Middle Grades (4-8)

#### Graduate Majors (P.S.M.)

Industrial Mathematics:  
Continuous Quality Improvement Option  
Mathematical Computing and Modeling Option

#### Program Certificate

Continuous Quality Improvement Certificate

#### Notes:

1. A student majoring or minoring in mathematics, who has a grade point average of less than 2.25 in all departmental courses used for that major or minor may not apply a departmental course in which a grade of less than C- is earned to her/his major or minor.
2. Undergraduate students who have been admitted to the university provisionally because of non-satisfaction of the high school mathematics requirements may not enroll in any mathematics credit course before this requirement has been met.
3. Students who complete the requirements for more than one program (major or minor) within mathematics may have that noted on their transcripts.

## Bachelor of Arts Degree Programs

### Mathematics Major

The Mathematics major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics:  
Common core: 800:060; 800:061; 800:062; 800:076.....15 hours  
Mathematics core: 800:140; 800:141; 800:160;  
800:162.....12 hours

Electives ..... 12-13 hours

Mathematics: either 800:194 and four courses as described below, or 800:195 and three courses as described below. One course must be from each of Groups I, II, III. If a fourth course is required, it may be either any other course from Groups I, II, III, or any course that has one of the courses from Groups I, II, and III as a prerequisite.

Group I: 800:155; 800:161; 800:165;  
800:167.

Group II: 800:142; 800:149; 800:152;  
800:156; 800:176\*.

Group III: 800:144; 800:169; 800:180;  
800:181; 800:182; 800:185.

39-40 hours

\*800:176 requires 810:034, 810:035, or 810:036 as a prerequisite.

## Program Requirements

### Mathematics

#### Mathematics Major—Computer Science Emphasis

The Mathematics Major—Computer Science Emphasis requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

##### Required:

###### Mathematics:

Common core: *800:060*; 800:061; 800:062; 800:076.....15 hours  
Applied core: *800:072*; 800:121; 800:124; 800:149;  
800:152; 800:176.....18 hours  
Computer Science: 810:041; 810:051; 810:052;  
810:080.....14 hours

###### Electives in Mathematics:

one of the following four - 800:126; 800:150; 800:177;  
800:178 .....3 hours  
Capstone: 800:195 or 800:198 .....3 hours

###### Electives in Computer Science:

choose 3 courses from one of the following tracks .....9 hours  
Information Systems Track: 810:114; 810:115; 810:116;  
810:118.  
Software Engineering Track: 810:172; 810:173; 810:174;  
810:175; 810:178.  
Systems Track: 810:140; 810:141; 810:142; 810:143;  
810:145; 810:147.

62 hours

#### Mathematics Major—Statistics and Actuarial Science

The Mathematics—Statistics and Actuarial Science major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

##### Required:

###### Mathematics:

Common core: *800:060*; 800:061; 800:062; 800:076.....15 hours  
Statistics core: *800:064* or *800:072*; 800:121; 800:152;  
800:174; 800:175.....15 hours  
Computer Science: 810:030 or 810:035 or 810:036  
or 810:051 .....3-4 hours

###### Electives .....9-10 hours

Mathematics: either 800:194 and at least 9 credit hours  
from the following, or 800:195 and at least 6  
credit hours from the following: 800:080; 800:122;  
800:123; 800:126; 800:146 (to a maximum of 3  
hrs.); 800:153; 800:154; 800:157; 800:158; 800:170;  
800:171; 800:176; 800:177; 800:196; 800:197.

42-44 hours

#### Mathematics Major—Teaching

The Mathematics—Teaching major requires a minimum of 122-123 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 122-123 hours. Liberal Arts Core courses included in major program

requirements are distinguished by *italics*.

##### Required:

###### Mathematics:

Common core: *800:060*; 800:061; 800:062; 800:076.....15 hours  
Teaching core: 800:143; 800:160; 800:165 or 800:166;  
800:173; 800:180 or 800:185; 800:183; 800:188;  
800:190; two of the following — 800:144,  
800:162, 800:189.....30 hours

###### Mathematics: 800:096

###### or

Computer Science: 810:030 or 810:035 or 810:036  
or 810:051 .....3-4 hours  
48-49 hours

For departmental approval to student teach, a student on the program must satisfy the university requirements to student teach (page 52) and the following specific departmental requirements:

All grades in departmental courses to be applied to this program must be C- or higher unless the student's grade point average is 2.25 or higher in all the departmental courses to be applied to this program.

## Minors

#### Mathematics Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

##### Required:

Mathematics: *800:060*; 800:061; 800:076.....11 hours

###### Electives from the following .....12 hours

Mathematics: 800:062; 800:074; 800:141; 800:142;  
800:143; 800:144; 800:149; 800:150; 800:152;  
800:154; 800:155; 800:156; 800:157; 800:158;  
800:160; 800:161; 800:162; 800:165 or 800:166;  
800:167; 800:168; 800:169; 800:173; 800:174;  
800:175; 800:176; 800:177; 800:178; 800:180;  
800:181; 800:182; 800:185; 800:187; 800:189;  
800:196.

23 hours

#### Mathematics Minor—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

##### Required:

Mathematics: *800:060*; 800:061; *800:072* or 800:173;  
800:076; 800:143; 800:160; 800:165 or 800:166;  
800:188; 800:190.....29 hours

###### Mathematics: 800:096

###### or

Computer Science: 810:030 or 810:035 or 810:036  
or 810:051 .....3-4 hours  
32-33 hours

#### Mathematics Minor (K-8)—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

##### Required:

Mathematics: *800:031*; 800:037; 800:111; 800:112;



800:113; 800:114; 800:131 .....	23 hours
One of the following two courses.....	1 hour
Mathematics: 800:137; 800:192.	
	24 hours

800:161; 800:162; 800:167; 800:168; 800:169;	
800:174; 800:175; 800:176; 800:178; 800:180 or	
800:185; 800:181; 800:182; 800:187; 800:196;	
800:210; 800:246; 800:263; 800:273.	

32 or 36 hours

## Statistics and Actuarial Science Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061; 800:064 or 800:072;	
800:152 .....	14 hours

Electives ..... 9 hours

Mathematics: 800:062; 800:076; 800:080; 800:121;	
800:122; 800:123; 800:126; 800:146; 800:154;	
800:157; 800:158; 800:171; 800:174; 800:175;	
800:177; 800:196; 800:197.	

23 hours

## Master of Arts Degree Programs

### Major in Mathematics

The major in Mathematics is available with two emphases: Mathematics and Secondary Teaching.

The Mathematics emphasis is available on the **thesis** and **non-thesis** options. A **minimum of 36 hours** is required for the **thesis** option, including 6 hours of 800:299 and a **minimum of 15 additional hours of 200-level course work**. A **minimum of 32 hours** is required for the **non-thesis** option, including a **minimum of 2 hours of 800:299 and a minimum of 15 additional hours of 200-level course work**.

The Secondary Teaching emphasis is offered on a **non-thesis** option only and requires a **minimum of 32 hours**, including a minimum of 2 hours of 800:299 and a **minimum of 24 additional hours of 200-level course work**.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final written comprehensive examination is required for the **non-thesis option on the Mathematics emphasis only**.

Courses taken to satisfy B.A. requirements may not be repeated to count toward the graduate program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Mathematics for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

### Mathematics Emphasis

Required:

Mathematics: 800:155 or 800:189; 800:201; 800:203;	
800:240 .....	12 hours

At least two of the following: 800:202; 800:204; 800:241;	
800:266 .....	6 hours

Research: 800:299 .....	2 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (2 hrs.)	

Electives from the following..... 12 hours

Mathematics: Any of the courses listed above that	
were not used for the requirements there, or	
from among the following: 800:141; 800:149;	
800:150; 800:152; 800:154; 800:157; 800:158;	

## Secondary Teaching Emphasis

Required:

Mathematics Education/Technology: 800:280; 800:281;	
800:291; 800:293 .....	12 hours
Mathematics: 800:140; 800:162 or 800:240; 800:243;	
800:246; 800:266 or 800:267; 800:271 .....	18 hours
Research: 800:299 .....	2 hours
	32 hours

## Major in Mathematics for the Middle Grades (4-8)

This major is intended for teachers interested in mathematics for the middle grades (4-8) and for mathematics specialists and supervisors. Teacher licensure is a prerequisite for completing the program approval process for this major. Normally, candidates will have at least 2 years teaching experience.

This major is available on the **non-thesis** option only; a **minimum of 32 hours** is required. A **minimum of 15 hours of 200-level course work is required**.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Mathematics for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Mathematics: 800:191; 800:211; 800:213; 800:214;	
800:215; 800:220; 800:221; 800:222; 800:236;	
800:237; 800:238; 800:289 Seminar in Implementing	
Change in Teaching Mathematics I; 800:289	
Seminar in Implementing Change in Teaching	
Mathematics II; 800:289 .....	29 hours

Electives as approved by the department ..... 3 hours  
32 hours

## Professional Science Master's Degree Programs

### Major in Industrial Mathematics

This major is available on the **non-thesis** option. A **minimum of 34-35 hours** is required, depending on the option chosen. A **minimum of twelve (12) hours of 200-level course work is required**.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

No comprehensive examination is required for this **non-thesis option**.

The Professional Science Master's Degree in Industrial Mathematics is designed to prepare students for a career in industry. The curriculum combines a Business and Experiential Component with two degree options, one in Continuous Quality Improvement and the other in Mathematical Computing and Modeling. The Industrial Mathematics P.S.M. student will complete the Business and Experiential Component and one of the two options. There will be one elective course in

## Program Requirements

### Mathematics/Military Science

each option, with the choice approved by the Graduate Coordinator. Requirements for admission to the program include the completion of a bachelor's degree with a GPA of 3.00 or higher and successful completion of the following university-level courses: single and multivariable calculus (800:060, 800:061, 800:062), linear algebra (800:076), an introduction to statistics (800:072), calculus-based probability (800:152), and a course in computer programming (810:030, 810:035, 810:036, 810:051, or an equivalent).

Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Specific requirements for each option are as follows:

#### Continuous Quality Improvement Option

Business and Experiential Component:

Mathematics: 800:274; 800:275 .....9 hours  
Science and Science Education: 820:209 .....3 hours

Required:

Mathematics: 800:121; 800:123; 800:126; 800:157;  
800:272; 800:289 (Seminar in Lean and Six-Sigma  
Methods in Industry, 2 hrs.) .....17 hours

Physics: 880:205 .....3 hours

Electives (one course chosen from the following) .....3 hours

Mathematics: 800:122; 800:124; 800:175; 800:177;  
800:196; 800:273. \_\_\_\_\_

35 hours

#### Mathematical Computing and Modeling Option

Business and Experiential Component:

Mathematics: 800:274; 800:275 .....9 hours  
Science and Science Education: 820:209 .....3 hours

Required:

Industrial Technology: 330:122 .....3 hours

Mathematics: 800:124; 800:125; 800:177; 800:277 .....12 hours

Science and Science Education: 820:289 .....1 hour

Physics: 880:205 .....3 hours

Electives (one course chosen from the following) .....3 hours

Industrial Technology: 330:147.

Mathematics: 800:121; 800:126; 800:149; 800:150;  
800:176; 800:178. \_\_\_\_\_

34 hours

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of Mathematics or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Continuous Quality Improvement

The Continuous Quality Improvement certificate provides academic course work that covers all of the Body of Knowledge (BOK) on which the American Society for Control (ASQ) Six Sigma Black Belt certification examination is based, as well as the overwhelming majority of the BOK on which the ASQ Quality Engineer certification examination is based. The course work requirements are a subset of those required in the Continuous Quality Improvement Option of the Professional Science Master's Degree in Industrial Mathematics. The certificate is awarded on successful completion of the following courses:

Required:

Mathematics: 800:121; 800:123; 800:126; 800:157; 800:272;

800:289 (Seminar in Lean and Six-Sigma Methods in

Industry, 2 hrs.) .....17 hours

17 hours

## Department of Military Science

[www.uni.edu/armyrotc](http://www.uni.edu/armyrotc)

C. Lukasiewicz, Head. K. Lenth, K. Lostroh.

The Department of Military Science offers the following minor program. Specific requirements for this program are listed within this Department of Military Science section:

#### Minor

Military Science Minor

**General**—The Department of Military Science administers the Army Reserve Officers' Training Corps (ROTC) program at the University of Northern Iowa. Credits earned in the department count as general elective credits toward baccalaureate degree requirements or a minor in Military Science. All instructors in the department are career U.S. Army Officers. The course of instruction is designed to be a four-year program. Students with prior military experience may be allowed to complete the program in two years. Students who desire to receive a commission as an officer in the U.S. Army will be required to contract with the Department of the Army during the final two years of the course. They will receive \$4,500 per year stipend for two years and will incur a service obligation upon graduation.

**The Four-Year Program**—The ROTC program is divided into two parts: the Basic Course and the Advanced Course each lasting two years. Students may be allowed to waive the Basic Course requirements with department head approval.

Required:

Basic Course: 080:091; 080:092; 080:093; 080:094 .....6 hours

Advanced Course: 080:116; 080:117; 080:118; 080:119 .....12 hours

Electives .....15 hours

3 hours selected from each of the following fields:

Written Communication, Human Behavior, Military History, Computer Literacy, Math Reasoning. (Liberal Arts Core courses taken in these areas are accepted as meeting the elective credit requirements.) \_\_\_\_\_

33 hours

For a student to receive a commission, s(he) must receive credit for the Basic Course and is required to take the Advanced Course. A Military Science minor is offered and consists of the following requirements:

### Military Science Minor

Required:

Military Science: 080:091\*; 080:092\*; 080:093\*;

080:094\*; 080:116; 080:117; 080:118; 080:119 .....18 hours

Electives .....21 hours

minimum of 3 hours selected from each of the following fields: Human Behavior, Military History, Computer Literacy, Management, Security Studies. \_\_\_\_\_

39 hours

\* Requirement may be waived by the Department Head.

**The Simultaneous Membership Program.** The Simultaneous Membership Program (SMP) allows contracted cadets to be members of the Iowa National Guard or the Army Reserve and Army ROTC simultaneously.

ROTC SMP cadets are paid at the rate of a Sergeant (E-5) for their one weekend a month training assemblies, plus up to \$2853 a year in New G.I. Bill educational assistance benefits and a \$350 kicker if qualified. Many ROTC SMP cadets also qualify for the Student Loan Repayment Program or tuition assistance.

**ROTC Scholarships.** U.S. Army ROTC two-, three-, and four-year scholarships are available. They cover all tuition and required educational fees at UNI, and provide \$600 per semester for textbooks, supplies, and equipment.

Army ROTC scholarships also provide a subsistence allowance of up to \$4,500 for each school year that the scholarship is in effect. Winning and accepting an ROTC scholarship does not preclude accepting other scholarships. See pages 19-20, 49 of this bulletin for more information about U.S. Army ROTC scholarships.

**G.I. Bill.** Students participating in the Simultaneous Membership Program are entitled to the New G.I. Bill educational assistance benefits. Receiving the New G.I. Bill educational assistance benefits does not preclude a student from accepting an ROTC Scholarship for the same period. Many students receiving the New G.I. Bill also qualify for the Student Loan Repayment Program.

**Veterans.** Veterans receive advanced placement credit for the entire Basic Course. Veterans receive an ROTC allowance in addition to their G.I. Bill benefits.

**Special Schools.** Both Basic and Advanced Course students can volunteer to attend special military schools such as Airborne School, Northern Warfare Training, or Air Assault Training.

**Financial Assistance.** As a minimum, all Advanced Course ROTC students receive \$450-500 per month for each month of school (for up to 10 months per year) as a tax-free allowance. Students on scholarship, participating in the Simultaneous Membership Program, and veterans, will earn additional compensations as enumerated above. Students attending special training, such as The Military Leadership Practicum, receive a travel allowance and are paid while receiving the training. Uniforms and books for all classes taught by the Military Science Department are furnished, and a tax-free uniform allowance is provided to all students who complete the Advanced Course.

**Additional Information.** Additional information about the specific courses offered by the Department of Military Science is found on page 214 of this bulletin, under Military Science. For additional information, write to the University of Northern Iowa, Department of Military Science, Cedar Falls, IA 50614-0142; come in person to West Gym 203, UNI campus; or call the student advisor at 319-273-6337. Please visit our Web site at [www.uni.edu/armyrotc](http://www.uni.edu/armyrotc).

## Department of Modern Languages (College of Humanities and Fine Arts)

**[www.uni.edu/modlangs](http://www.uni.edu/modlangs)**

*C. Roberts, Head. M. Basom, R. Bubser, J. Castillo, J. Cooley, I. Cuadra, D. Heistad, R. Krueger, A. Lair, G. Olivares-Cuhat, A. Planells, S. Rosell, J. Storm, F. Vernescu, S. Wildner, S. Yetter.*

The Department of Modern Languages offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Modern Languages section in the following order:

### Undergraduate Majors (B.A.)

European Studies (also listed in Department of History)  
Modern Languages Dual  
Modern Languages Dual—Teaching  
French Studies  
French Studies—Teaching  
German  
German—Teaching  
Russian  
Spanish  
Spanish—Teaching  
TESOL/Modern Language—Teaching (also listed in the Department of English Language and Literature)

### Minors

Comparative Literature (also listed in the Department of English Language and Literature)  
French Studies  
French—Teaching  
German  
German—Teaching  
Portuguese  
Portuguese—Teaching  
Russian  
Russian—Teaching  
Spanish  
Spanish—Teaching

### Graduate Majors (M.A.)

French  
German  
Spanish  
TESOL/Modern Languages (also listed in Department of English Language and Literature)  
Major in Two Languages: French/German, Spanish/French, German/Spanish

### Program Certificates

Certificate in French Language Studies  
Certificate in German Language Studies  
Certificate in Hispanic and Portuguese Studies  
Certificate in Hispanic Cultures  
Certificate in Portuguese Studies  
Certificate in Russian Language Studies  
Certificate in Spanish Language Studies  
Certificate in Spanish for Special Purposes  
International Commerce Certificate  
Certificate in Translation (in French, German, Portuguese, Russian, or Spanish)

**Note:** Major programs available in single or dual language include French, German, Portuguese, Russian, Spanish, and the Modern Languages Subject Field for the Middle Level Education Major. Minors include French, German, Portuguese, Russian, and Spanish. Courses are offered in all of the above languages, plus Chinese.

Two interdepartmental programs are offered cooperatively with the Department of English Language and Literature and are listed in both department sections. These programs are TESOL/Modern Language Major-Teaching, and the Comparative Literature Minor.

The European Studies major is an interdisciplinary program offered jointly by the College of Humanities and Fine Arts and the College of Social and Behavioral Sciences and is under the jurisdiction of the heads of the Department of Modern Languages and the Department of History.

A student who has been enrolled previously in a foreign language at

## Program Requirements

### Modern Languages

this institution will be advised by her/his instructor as to the sequence of succeeding courses.

A student who has never had a foreign language should enroll in the Elementary I or Introduction I course.

The previous background and facility in acquiring basic skills of the individual student may necessitate taking additional work in lower division courses which are not specified in the major.

The total program hours will depend on the student's background and will vary.

Licensure to teach a modern language in elementary school can be achieved by majoring in Elementary Education and taking the teaching minor in the relevant language.

To meet any course prerequisite, a grade of C- or higher is required in the prerequisite course.

## Bachelor of Arts Degree Programs

### European Studies Major

The European Studies major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This is an interdisciplinary program offered jointly by the College of Social and Behavioral Sciences and the College of Humanities and Fine Arts, and is under the jurisdiction of the heads of the Departments of History and Modern Languages, and can only be elected as a second major with a major in history or a major in a foreign language (French, German, Portuguese, Russian, and Spanish).

Required core courses:

Philosophy: 650:101 or 650:103 or 650:104.....	3 hours
Humanities: 680:021 .....	3 hours
History: one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171; 963:156; 963:170 (for students in Russian) or 963:172 (for students in German) or 963:174 (for students in French) or 960:186 (Studies in History: Portugal, for students in Portuguese) or 960:186 (Studies in History: Spain, for students in Spanish) or 963:165 (for students with an emphasis in English history).....	9 hours
Electives in history, political science, economics or geography—approved by advisor (6 hours must be taken outside of history) .....	9 hours
Foreign Language component* .....	22 hours
22 hours beyond first-year French, German, Portuguese, Russian or Spanish, to include:	
French: 720:101; 720:104; 720:124 or 720:125.	
or	
German: 740:101; 740:104; 740:123 or 740:150.	
or	
Russian: 770:101; 770:102; 770:141.	
or	
Spanish: 780:101; 780:104; 780:123.	
or	
Portuguese: 790:101; 790:123. To include 4 hours from 790:109; 790:186; 790:191; 790:198.	
One 3-hour course in translation, literature or TESOL/Applied Linguistics.	
One summer's study abroad in Europe required for students in French, German,	

and Spanish and highly recommended for students in Portuguese and Russian. Required for students emphasizing English history and language: one summer's study abroad in the British Isles.

46 hours

\*With permission, students emphasizing the British Isles may substitute Gaelic, Old or Middle English for this requirement.

### Modern Languages Dual Major

The Modern Languages Dual major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Choose two from: French, German, Portuguese, Russian, Spanish.

Required: a minimum of 21\* semester hours, more advanced than the elementary/introductory level, in each of two languages for a total of 42 semester hours. At least 15 hours in each language must be in courses numbered 100 or higher.

42 hours

\*Students with no previous experience in a language may need to take more than 21 hours.

Specific requirement per language:

**French:** A minimum of 21 semester hours in French in courses more advanced than 720:002 and 720:004, including 720:101, 720:104, and 720:122. At least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

- 720:124; 720:125.
- 720:105; 720:161; 720:185.

**German:** A minimum of 21 semester hours in German in courses more advanced than 740:002 and 740:004, including 740:101, 740:103, and 740:104 or 740:031, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

- 740:121; 740:123; 740:150.
- 740:132; 740:136; 740:160; 740:185.
- 740:116; 740:122; 740:130; 740:134.

**Portuguese:** A minimum of 21 semester hours in Portuguese in courses more advanced than 790:001, including 790:101; with electives from among 720:104, 780:104, 790:002, 790:010, 790:020, 790:031 (or any 620:031 section cross listed with 790:031), 790:060, 790:101, 790:109, 790:123, 790:133, 790:179, 790:180, 790:186, 790:191, 790:198, 790:199. At least 15 hours must be in courses numbered 100 or higher.

**Russian:** A minimum of 21 semester hours in Russian in courses more advanced than 770:002 and 770:004, including 770:101, 770:103, 770:196. At least 15 hours must be in courses numbered 100 or higher.

**Spanish:** A minimum of 21 semester hours in Spanish in courses more advanced than 780:002, including 780:101\*\*, 780:104 or 780:105, 780:107, and 780:108, at least 15 hours must be in courses numbered 100 or higher, including at least one course from group a and one course from group b. A maximum of 6 hours of course work in translation may be counted toward a major in Spanish.

- 780:120; 780:123; 780:127; 780:152.
- 780:112; 780:118; 780:145; 780:146; 780:147.

\*\*The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

## Modern Languages Dual Major – Teaching (Extended Program)

The Modern Languages Dual major in Teaching requires a minimum of 138 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 138 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Students successfully completing this major will be eligible for licensure/endorsement in two languages. Choose two from: French, German, Portuguese (endorsement only), Russian (endorsement only), Spanish.

Required:

Languages: 700:190; 700:193.....5 hours

Practicum in one of the languages:

720/740/770/780/790:191.....2 hours

Students must have a minimum of 30\* semester hours in one language and a minimum of 24 semester hours in another. In each language, at least 21\*\* hours must be more advanced than the elementary/introductory level, 15 hours must be in courses numbered 100 or higher. A total of 59 semester hours is required.

61 hours

\*\*Students with no previous experience in a language may need to take more than 21 hours.

Specific requirement per language:

**French:** A minimum of 24 (\*or 30) semester hours in French, with at least 21 more advanced than 720:002 and 720:004, including 720:101, 720:104, and 720:122, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

a. 720:124; 720:125.

b. 720:105; 720:161; 720:185.

**German:** A minimum of 24 (\*or 30) semester hours in German, with at least 21 more advanced than 740:002 and 740:004, including 740:101, 740:103, and 740:104 or 740:031, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

a. 740:121; 740:123; 740:150.

b. 740:132; 740:136; 740:160; 740:185.

c. 740:116; 740:122; 740:130; 740:134.

**Portuguese:** A minimum of 24 semester hours in Portuguese, with at least 21 more advanced than 790:001, including 790:101; with electives from among 720:104, 780:104, 790:002, 790:010, 790:020, 790:031 (or any 620:031 section cross listed with 790:031), 790:060, 790:101, 790:109, 790:123, 790:133, 790:179, 790:180, 790:186, 790:191, 790:198, 790:199. At least 15 hours must be in courses numbered 100 or higher.

**Russian:** A minimum of 24 semester hours in Russian, with at least 21 more advanced than 770:002 and 770:004, including 770:101, 770:103, 770:196, at least 15 hours must be in courses numbered 100 or higher.

**Spanish:** A minimum of 24 (\*or 30) semester hours in Spanish, with at least 21 more advanced than 780:002, including 780:101\*\*\*, 780:104 or 780:105, 780:107, and 780:108, at least 15 hours must be in courses numbered 100 or higher, including at least one course from group a and one course from group b. A maximum of 6 hours of course work in translation may be counted toward a major in Spanish.

a. 780:120; 780:123; 780:127; 780:152.

b. 780:112; 780:118; 780:145; 780:146; 780:147.

\*\*\*The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

## French Studies Major

The French Studies major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

French: a minimum of 33 semester hours in French in courses more advanced than 720:002 and 720:004.

Required 720:101 and 720:103. At least 24 hours of the total 33 hours must be numbered 100 or above.

33 hours

### Emphases:

#### 1. Liberal arts

Required: 720:104; 720:122 and at least one course from each category:

a. 720:124; 720:125.

b. 720:105; 720:161; 720:185.

c. 720:108; 720:128.

#### 2. Business

Required: 720:102; 720:111; 720:114; 720:124 or 720:125; 720:181.

## French Studies Major–Teaching

The French Studies major in Teaching requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: a minimum of 38 semester hours as follows:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

French: minimum of 33 semester hours in French in courses more advanced than 720:002 and 720:004.

Required 720:101, 720:103\*, 720:104, 720:122 and 720:191 (2 hrs.). At least 24 of the total 33 hours must be numbered 100 or above and include at least one

course from each of the following groups.....33 hours

a. 720:124; 720:125.

b. 720:105; 720:161; 720:185.

c. 720:108; 720:128.

38 hours

\*The requirement for 720:103 may be fulfilled by participation in either a UNI or an Iowa Regents program abroad.

## German Major

The German major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

German: a minimum of 33 semester hours in German in courses more advanced than 740:002 and 740:004, including 740:101, 740:103, and 740:104 or 740:031, of which at least 24 hours must be in courses numbered 100 or higher.

33 hours

## Program Requirements

### Modern Languages

#### Emphases:

##### 1. Liberal Arts

Choose at least one course from each category:

- a. 740:102; 740:185.
- b. 740:121; 740:123; 740:132; 740:136; 740:150; 740:160.
- c. 740:116; 740:122; 740:130; 740:134.

##### 2. Business

Required: 740:111.

Choose at least 3 courses from 740:102, 740:121, 740:123, 740:150, 740:185.

780:101\*, 780:104 or 780:105, 780:107 and 780:108, 780:112 or 780:118, and 780:131 or 780:135, of which at least 26 hours must be in courses numbered 100 or higher, and including at least one course from group a and one course from group b.

- a. 780:120; 780:123; 780:127; 780:152.
- b. 780:145; 780:146; 780:147; 780:162; 780:163; 780:164; 780:166.

33 hours

\*The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

### German Major–Teaching

The German major in Teaching requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: a minimum of 38 semester hours as follows:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

German: a minimum of 33 semester hours in German

in courses more advanced than 740:002 and 740:004, including 740:101 (3 hrs.), 740:103 (3 hrs.), 740:104 or 740:031, and 740:191 (2 hrs.), of which at least 24 hours must be in courses numbered 100 or higher .....33 hours

Choose at least one course from each category:

- a. 740:102; 740:185.
- b. 740:121; 740:123; 740:132; 740:136; 740:150; 740:160.
- c. 740:116; 740:122; 740:130; 740:134.

38 hours

### Russian Major

The Russian major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Russian: a minimum of 33 semester hours in Russian

courses more advanced than 770:002 and 770:004, including 770:101, 770:103, and 770:196, of which at least 23 hours must be courses numbered 100 or higher, and including at least one course from each of the following groups:

- a. 770:141; 770:142.
- b. 770:102; 770:104.
- c. 770:132; 770:134.

33 hours

### Spanish Major

The Spanish major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Spanish: a minimum of 33 semester hours in Spanish courses more advanced than 780:002, including

### Spanish Major–Teaching

The Spanish major in Teaching requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required: a minimum of 38 semester hours as follows:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

Spanish: a minimum of 33 semester hours in Spanish

courses more advanced than 780:002, including 780:101\*, 780:104 or 780:105\*\*, 780:107 and 780:108, 780:112 or 780:118, 780:131 or 780:135, and 780:191, of which at least 26 hours must be in courses numbered 100 or higher, and including at least one course from group a and one course from group b.....33 hours

- a. 780:120; 780:123; 780:127; 780:152.
- b. 780:145; 780:146; 780:147; 780:162; 780:163; 780:164; 780:166.

38 hours

\*The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

\*\*780:105 is highly recommended for teaching majors.

### TESOL/Modern Language Major–Teaching (Extended Program)

This major is offered cooperatively by the Department of English Language and Literature and the Department of Modern Languages, and is under the jurisdiction and supervision of the heads of these two departments.

The TESOL/Modern Language Major–Teaching requires a minimum of 134 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 134 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Student teaching at both the K-8 and 5-12 levels is required to earn the ESL K-12 endorsement on an Iowa teaching license.

Required:

English: 620:034; one of the following - 620:103; 620:104;

620:105; 620:193.....6 hours

TESOL/Applied Linguistics: 630:125 or 630:130; 630:154;

630:160; 630:165; 630:192; 630:193; 630:194; 630:196.24 hours

30 hours from one of the language emphases below .....30 hours

60 hours

## Emphases—

### French:

Languages: 700:190.

French: 720:011; 720:012; 720:051 (3 hrs.); 720:061 (2 hrs.); 720:101; 720:104; 720:105; 720:124 or 720:125; 720:191 (2 hrs.); at least one French literature course; and electives in French more advanced than 720:002 and 720:004 to make 30 hours.

### German:

Languages: 700:190.

German: 740:011; 740:012; 740:013; 740:014; 740:101 (2-3 hrs.); 740:103 (2-3 hrs.); 740:123 or 740:150; 740:191 (2 hrs.); at least one German literature course and electives in German more advanced than 740:002 and 740:004 to make 30 hours.

### Russian:

Languages: 700:190.

Russian: 770:011; 770:012; 770:013; 770:014; 770:101; 770:103; 770:191 (2 hrs.); at least one Russian literature course; and electives in Russian more advanced than 770:002 and 770:004 to make 30 hours.

### Spanish:

Languages: 700:190.

Spanish: 780:055 (4 hrs.); 780:101; 780:104 or 780:105; 780:107 (2 hrs.) and 780:108; 780:120 or 780:123 or 780:127 or 780:152 (3 hrs.); 780:145 or 780:146 or 780:147; 780:191 (2 hrs.); and electives in Spanish more advanced than 780:002 to make 30 hours.

**Note:** International students must have achieved a TOEFL paper-based score of 600 or computer-based score of 250 or the equivalent.

## Minors

### Comparative Literature Minor

This is an interdisciplinary minor administered jointly by the Department of English Language and Literature and the Department of Modern Languages.

This minor is designed for foreign language majors and students of English literature who demonstrate a reading knowledge of a foreign language. Other students who can demonstrate a reading knowledge of a foreign language may also enroll.

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

English Language and Literature: 620:161; a 100-level

course in English literature.....6 hours

Electives: (see below\*) ..... 12 hours  
18 hours

\*For Foreign Language Majors—

Electives in 100-level foreign language literature courses (6 hours).

English literature at the 100-level (excluding 620:144, 620:147, 620:148) - (6 hours).

\*For Non-Foreign Language Majors—

French: 720:104; or

German: 740:104; or

Spanish: 780:104.

Electives in 100-level foreign language literature courses (9 hours).

### French Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

French: 720:101 or 720:103 .....3 hours

18 hours in French in courses more advanced than 720:002

and 720:004..... 18 hours

21 hours

### French Minor—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

French: 720:101; 720:191 (2-3 hrs.)..... 5-6 hours

18-19 hours in French courses more advanced

than 720:002 and 720:004..... 18-19 hours

29 hours

### German Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

German: 740:101; 740:103 .....6 hours

15 hours in German in courses more advanced than

740:002 and 740:004 ..... 15 hours

21 hours

### German Minor—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

German: 740:101; 740:103; 740:191 (2 hrs.) .....8 hours

16 hours in German in courses more advanced than

740:002 and 740:004 ..... 16 hours

29 hours

### Portuguese Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Portuguese: 790:001 .....3 hours

16 hours more advanced than 790:001, from 790:010;

790:020; 790:031 (any 620:031 section cross listed with

790:031); 790:060; 790:101; 790:109; 790:123; 790:133;

790:179; 790:180; 790:186; 790:191; 790:198..... 16 hours

19 hours

A final essay and interview are required.

### Portuguese Minor—Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours

Portuguese: 790:101; 790:191.....5 hours

19 hours in Portuguese above 790:001 ..... 19 hours

29 hours

## Program Requirements

### Modern Languages

#### Russian Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Russian: 21 hours in courses in Russian more advanced than 770:002 and 770:004.....21 hours

#### Russian Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours  
Russian: 24 hours in courses in Russian more advanced than 770:002 and 770:004, including 770:191 (2-3 hrs.) .....24 hours  
29 hours

#### Spanish Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Spanish: 780:101 .....3 hours  
3 hours in Spanish courses more advanced than 780:101 .....3 hours  
15 hours in Spanish in courses more advanced than 780:002 .....15 hours  
21 hours

#### Spanish Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.).....5 hours  
Spanish: 780:101; 780:191 (2-4 hrs.) ..... 5-7 hours  
3 hours in Spanish in courses more advanced than 780:101 .....3 hours  
14-16 hours in Spanish in courses more advanced than 780:002 ..... 14-16 hours  
29 hours

## Master of Arts Degree Programs

### Major in French

The major in French is available on the **thesis** and **non-thesis** options; a **minimum of 32 hours** is required for either option. **On the thesis option, a minimum of 15 hours of 200-level course work, including 6 hours of Research 720:299, is required. On the non-thesis option, a minimum of 12 hours of 200-level course work is required, including no more than 3 hours of 720:299.** In the case of the non-thesis option, a research paper must be approved by the student's committee and filed with the Department of Modern Languages before the comprehensive examinations may be taken. Successful completion of a final written and oral comprehensive examination is required for **both the thesis and non-thesis options**.

Admission requirements: for M.A. admission and Graduate Assistant applications the following items are required: 1) major or equivalent in the language of study, 2) two letters of recommendation, 3) statement

purpose in target language, 4) 550 TOEFL score or higher.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Research: 700:295 ..... 2-3 hours  
Literature courses (minimum) .....8 hours  
Linguistics, grammar, and/or translation courses (minimum) .....8 hours  
One course in civilization or culture (unless previously met) .....3 hours  
Electives (6 hours 720:299 research required for thesis option) ..... 10-11 hours  
32 hours

The remainder of the program will be determined by the student's needs in consultation with her/his advisor. No more than 6 semester hours in translation or 6 hours in interpreting may be applied toward this major.

### Teaching Emphasis

This program is offered on the **non-thesis** option only. A **minimum of 34 semester hours** is required, of which **a minimum of 16 hours must be at the 200-level**; a minimum of 20 hours must represent courses taught in French.

Successful completion of a final written and oral comprehensive examination is required. A research paper, written on an aspect of methodology, must be approved by the student's M.A. committee and filed with the Department of Modern Languages before comprehensive examinations may be taken.

Prerequisites: Student must hold a valid teaching license and have documentation of successful teaching experience. The student who has not completed 700:190, 720:101 and 720:103, or equivalents, before entering the program must add these courses to the requirements stated below.

Required:

Educational Psychology: 200:214 .....3 hours  
Measurement and Research: 250:205 or equivalent .....3 hours  
French:  
Methods, one of which must be a methodological topic in 720:226, 720:286 or 720:289 .....6 hours  
Linguistics, one of which must be at the 200-level, and one language-specific .....6 hours  
Culture and civilization\* .....6 hours  
Literature\* .....6 hours  
Electives in French ..... 4 hours  
34 hours

\*One of these courses must be at the 200-level. Courses must be taught in French.

### Major in German

The major in German is available on the **thesis** and **non-thesis** options; a **minimum of 32 semester hours** is required for either option. **On the thesis option a minimum of 15 hours of 200-level course work, including 6 hours of 740:299, is required. On the non-thesis option, a minimum of 12 hours of 200-level course work is required, of which no more than 3 hours of 740:299 may be included.** In the case of the non-thesis option, a research paper must be approved by the student's



committee and filed with the Department of Modern Languages before the comprehensive examinations may be taken. Successful completion of a final written and oral comprehensive examination is required for **both the thesis and non-thesis options**.

Admission requirements: for M.A. admission and Graduate Assistant applications the following items are required: 1) major or equivalent in the language of study, 2) two letters of recommendation, 3) statement purpose in target language, 4) 550 TOEFL score or higher.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Research Methods: 700:295.....	2-3 hours
Literature courses .....	8 hours
Linguistics, grammar and/or translation courses.....	8 hours
One course in civilization or culture (unless previously met).....	3 hours
Electives (6 hours 740:299 research required for the thesis option) .....	10-11 hours 32 hours

The remainder of the program will be determined by the student's needs in consultation with her/his advisor. No more than 6 hours in translation or 6 hours in interpreting may be applied toward this major.

### Teaching Emphasis

This program is offered on the **non-thesis** option only. A **minimum of 34 semester hours** is required, of which a **minimum of 16 hours must be at the 200-level**; a minimum of 20 hours must represent courses taught in German.

Successful completion of a final written and oral comprehensive examination is required. A research paper, written on an aspect of methodology, must be approved by the student's M.A. committee and filed with the Department of Modern Languages before comprehensive examinations may be taken.

Prerequisites: Student must hold a valid teaching license and have documentation of successful teaching experience. The student who has not completed 700:190, 740:101 and 740:103, or equivalents, before entering the program must add these courses to the requirements stated below.

Required:

Educational Psychology: 200:214 .....	3 hours
Measurement and Research: 250:205 or equivalent .....	3 hours
German:	
Methods, one of which must be a methodological topic in 740:226, 740:286 or 740:289 .....	6 hours
Linguistics, one of which must be at the 200- level, and one language-specific .....	6 hours
Culture and civilization* .....	6 hours
Literature* .....	6 hours
Electives in German .....	4 hours 34 hours

\*One of these courses must be at the 200-level. Courses must be taught in German.

### Major in Spanish

This emphasis is available on both the **thesis** and **non-thesis** options. A **minimum of 32 semester hours** is required for either option.

**A minimum of 18 hours of 200-level course work, including 6 hours of 780:299, is required for the thesis option. A minimum of 15 hours of 200-level course work is required for the non-thesis option.** In the case of the non-thesis option, a research paper must be approved by the student's committee and filed with the Department of Modern Languages before the comprehensive examinations may be taken. Successful completion of a final written and oral comprehensive examination is required for **both the thesis and non-thesis options**.

Admission requirements: for M.A. admission and Graduate Assistant applications the following items are required: 1) major or equivalent in the language of study, 2) two letters of recommendation, 3) statement purpose in target language, 4) 550 TOEFL score or higher.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Languages: 700:295.....	2-3 hours
Spanish: Literature courses must include one 200-level course in Spanish literature and one 200-level course in Spanish-American literature .....	12 hours
Spanish: Linguistics, grammar and/or translation courses....	8 hours
Spanish: Culture and Civilization courses .....	3 hours
Electives (6 hours of 780:299 required for thesis option) .....	6-7 hours 32 hours

No more than 6 hours of translation 780:145 and/or 780:245 may be applied toward this major.

### Teaching Emphasis

This program is offered on the **non-thesis** option only. A **minimum of 34 semester hours** is required, of which a **minimum of 16 hours must be at the 200-level**; a minimum of 20 of those credits must represent courses taught in Spanish.

Successful completion of a final written and oral comprehensive examination is required. A research paper, written on an aspect of methodology, must be approved by the student's committee and filed with the Department of Modern Languages before comprehensive examinations may be taken.

Prerequisites: Student must hold a valid teaching license and must have documentation of successful teaching experience. The student who has not completed 700:190, 780:101 and 780:103, or equivalents, before entering the program must add these courses to the requirements listed below.

Required:

Educational Psychology: 200:214 or equivalent .....	3 hours
Measurement and Research: 250:205 or equivalent .....	3 hours
Spanish:	
Methods courses, one of which must be a methodological topic in 780:284, 780:286 or 780:289 .....	6 hours
Linguistics, grammar and/or translation courses, one of which must be at the 200-level, and one language-specific .....	6 hours
Culture and civilization courses .....	6 hours
Must be taught in Spanish, with at least one course at 200-level .....	8 hours
Literature courses .....	8 hours
Must be taught in Spanish, with at least two courses	

## Program Requirements

### Modern Languages

at 200-level	
Electives in Spanish.....	<u>2 hours</u>
	34 hours

### Major in TESOL/Modern Languages

This major is offered cooperatively by the Department of English Language and Literature and the Department of Modern Languages, and is under the jurisdiction and supervision of the heads of these two departments.

This major is available on the **non-thesis** option only. A **minimum of 33 semester hours** is required, including a **minimum of 18 hours** at the 200-level. An approved research paper is also required. The student who has not completed 7x0:101 and either 630:125 or 630:130 (or the equivalent) before entering the master's degree program must add these courses to the requirements listed below. There is no separate modern language requirement.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final written comprehensive examination is required for this M.A. major, as specified by the TESOL/Applied Linguistics and Modern Language faculties. See the TESOL Graduate Coordinator for details.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Modern Languages for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

#### Required:

TESOL/Applied Linguistics: 630:192; 630:193 or  
630:194; 630:201; 630:240 or 630:289 or 630:295;  
630:292; 630:297 ..... 18 hours

Electives: One of the following language emphases for a  
minimum total emphasis of 15 hours of which 6 hours  
must be at the 200-level ..... 15 hours  
33 hours

#### French Emphasis:

Languages: 700:190\* or 700:290 ..... 3 hours  
French: 720:124 or 720:125; and one of the  
following—720:203 or 720:207 or 720:270 or  
720:271 or 720:289 ..... 6 hours  
Plus courses approved by the graduate French advisor ..... 6 hours  
15 hours

#### German Emphasis:

Languages: 700:190\* or 700:290 ..... 3 hours  
German: 740:123 or 740:150 ..... 3 hours  
Plus courses approved by the graduate German advisor ..... 9 hours  
15 hours

#### Spanish Emphasis:

Languages: 700:190\* or 700:290 ..... 3 hours  
Spanish: one graduate course in each of the following areas:  
culture and civilization; translation; linguistics ..... 6-9 hours  
Plus courses approved by the graduate Spanish  
advisor ..... 3-6 hours  
15 hours

\*700:190 is required for a teaching endorsement in Modern Languages; 700:190 has a required corequisite 7xx:191 (2 hours), which cannot count toward an M.A. degree.

**Note:** International students must have achieved a Test of English as a Foreign Language (TOEFL) score of 600 (paper-based)/250 (computer-based), or the equivalent, in order to demonstrate their proficiency in English. An international student may be required to take additional

English language development courses at the discretion of the TESOL/Applied Linguistics faculty.

Students who wish state licensure to teach should request information concerning licensure requirements from the Director of Teacher Education, University of Northern Iowa, or from the Department of Education in the state in which they plan to teach.

### Major in Two Languages: French/German, Spanish/French, German/Spanish

The Two-Languages Major is available on both the **thesis** and **non-thesis** options for a **minimum of 34 semester hours**. A **minimum of 20 hours of 200-level course work is required for the thesis option**. A **minimum of 16 hours of 200-level course work is required for the non-thesis option**. Successful completion of a final written and oral comprehensive examination is required for **both the thesis and non-thesis options**.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Modern Languages for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

#### Required:

Languages: 700:295 ..... 2-3 hours  
Literature courses: a 200-level course in each language ..... 6 hours  
Linguistics courses: a 200-level course in each language ..... 6 hours  
Culture and Civilization courses: a course in each  
language ..... 6 hours

Electives: ..... 13-14 hours  
(6 hrs. of 7xx:299 required for the thesis option) .....  
34 hours

The student's program will be planned in consultation with her/his advisor.

#### Thesis Option:

In addition to 6 hours of 7xx:299 for the thesis, a minimum of 13 hours in each of the target languages is required. Of these, at least 7 hours in each language must be at the 200-level.

#### Non-Thesis Option:

A minimum of 16 hours in each of the target languages is required. Of these, at least 8 semester hours in each language must be at the 200-level.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Modern Languages or the Office of the Registrar, which serves as the centralized registry.

The Department of Modern languages program certificates are not intended for native speakers of the respective languages.

### Certificate in French Language Studies

#### Required:

15 semester hours of course work, selected from the  
following ..... 15 hours  
French: 720:001; 720:002; 720:003; 720:004; 720:011;

## Program Requirements Modern Languages/Music

720:012; 720:051; 720:061; 720:101; 720:102; 720:103. \_\_\_\_\_  
15 hours

A written and/or oral proficiency examination at the discretion of the certificate committee.

### Certificate in German Language Studies

Required:

15 semester hours of course work, selected from the following ..... 15 hours  
German: 740:001; 740:002; 740:003; 740:004; 740:011;  
740:012; 740:013; 740:014; 740:100; 740:101;  
740:103; 740:104. \_\_\_\_\_  
15 hours

A written and/or oral proficiency examination at the discretion of the certificate committee.

### Certificate in Hispanic and Portuguese Studies

Required:

Spanish: 780:104  
OR  
Portuguese: 790:031 ..... 3 hours  
Portuguese courses above 790:001 ..... 6 hours  
Spanish courses above 780:002 ..... 6 hours  
15 hours

### Certificate in Hispanic Cultures

Required:

Spanish: 780:055\*; 780:101 ..... 7 hours  
Spanish: 9 hours selected from the following ..... 9 hours  
780:120; 780:123; 780:127; 780:141; 780:146;  
780:152; 780:166. \_\_\_\_\_  
16 hours

\*Prerequisite: 780:011 or equivalent.

### Certificate in Portuguese Studies

Required:

15 semester hours of course work, selected from the following ..... 15 hours  
Portuguese: 790:001; 790:002; 790:010; 790:020; 790:031  
or any 620:031 section cross listed with 790:031;  
790:060; 790:101; 790:109; 790:123; 790:180 or  
course pre-approved by department. \_\_\_\_\_  
15 hours

A final essay and interview are required.

### Certificate in Russian Language Studies

Required:

15 semester hours of course work, selected from the following ..... 15 hours  
Russian: 770:001; 770:002; 770:003; 770:004; 770:011;  
770:012; 770:013; 770:014; 770:091; 770:101; 770:103. \_\_\_\_\_  
15 hours

A written and/or oral proficiency examination at the discretion of the certificate committee.

### Certificate in Spanish Language Studies

Required:

12 semester hours of course work, selected from the following ..... 12 hours  
Spanish: 780:011; 780:053; 780:055; 780:100; 780:101;

780:102; 780:103; 780:104; 780:105; 780:179. \_\_\_\_\_  
12 hours

A written and/or oral proficiency examination at the discretion of the certificate committee.

### Certificate in Spanish for Special Purposes

A minimum of 12 credit hours beyond 780:011 Intermediate Spanish is required.

Required:

Spanish: 780:053\* (2-3 hrs.); 780:101; 780:102\*  
(2-3 hrs.) ..... 7-9 hours

Electives:

Select one course from each of the following two categories ..... 5-6 hours  
a. Spanish: 780:107 (2-3 hrs.); 780:108.  
b. Humanities: 680:123.  
Spanish: 780:120; 780:123; 780:127. \_\_\_\_\_  
12-15 hours

\*Area of concentration (must be same area of concentration)

- Medical Spanish
- Business Spanish
- Spanish for Social Services
- Spanish for Criminology and Law Enforcement
- Spanish for Tourism
- Spanish for Journalism and Broadcasting

### International Commerce Certificate

Required:

A major or minor in a modern language.

The following courses:

Marketing: 130:101 ..... 3 hours  
Management: 150:153; 150:189 ..... 6 hours  
Advanced writing course: 7xx:101 ..... 3 hours  
Economics: 920:024 ..... 3 hours

Elective course in business, culture and civilization, or other

approved course, in the respective modern language ..... 3 hours  
18 hours

### Certificate in Translation (in French, German, Portuguese, Russian or Spanish)

Required:

15 semester hours of course work, distributed as follows:  
Courses in translation ..... 6-9 hours  
Complementary courses approved by faculty  
committee ..... 6-9 hours  
15 hours

An exam and/or portfolio may be required at the discretion of the certificate committee.

## School of Music

### (College of Humanities and Fine Arts)

**www.uni.edu/music**

*J. Vallentine, Director. B. Barrett, K. Barrett, T. Barry, S. Botkin, C. Buckholz, R. Burkhardt, J. Chenoweth, K. Droge, A. Floyd, J. Funderburk, S. Galyen, R. Grabowski, R. Guy, F. Halgedahl, J. Hines, R. Hogancamp, R. Johnson, K. Lee, J. McDonald, C. Merz, L. Morgan, D. Rachor, A. Schmitz, J. Schwabe, W. Shepherd, Y. Su, J. Trahan, R. Washut.*

## Program Requirements

### Music

The School of Music offers the following undergraduate and graduate programs and graduate program certificates. Specific requirements for these programs are listed within this School of Music section in the following order:

#### Undergraduate Major (B.A.)

Music

#### Minors

Jazz Studies

Music

#### Undergraduate Majors (B.M.)

Composition-Theory

Music Education

Performance

#### Graduate Major (M.A.)

Music

#### Graduate Majors (M.M.)

Composition

Conducting

Jazz Pedagogy

Music Education

Music History

Performance

Piano Performance and Pedagogy

#### Program Certificates

Artist Diploma I

Artist Diploma II

The School of Music offers majors and minors under two baccalaureate degrees: the Bachelor of Arts and the Bachelor of Music.

The Music major under the Bachelor of Arts degree is a liberal arts program for the student interested in combining the discipline of music training with the breadth offered by a liberal arts curriculum.

The Composition-Theory and Performance majors are professional degrees designed to prepare the student for 1) a career as a composer or an artist-performer, or 2) entrance to graduate schools where further excellence in composition or in a performance area might be pursued. The Music Education major prepares the student for a teaching career and provides licensure in music for grades K-8 and 5-12.

## General Requirements for Undergraduate Majors

Music majors on all degree programs must choose an area of applied music (540:xxx) for specialization and must meet the proficiency standards of the School of Music. The total required applied hours indicated for each major must be completed on one of the specialization instruments or voice on which the student auditioned. Dividing the required applied hours among various instruments, or voice and instrument(s), will not satisfy the applied music portion of any of the degree programs.

**Auditions:** Admission to the School of Music requires successful completion of an audition in the main performance area.

**Piano Proficiency:** Required of **all** majors. All freshmen will enroll in group piano class or applied piano continuously (semester by semester) until piano proficiency has been passed. For Music Education majors, requirements must be completed prior to student teaching.

**Vocal and Instrumental Competency:** Required of all Music Education Majors. Instrumental students (Specialization B) will attend special sections of Instrumental Techniques (570:010) taught by vocal/choral faculty. Keyboard majors enrolling for Specialization A must also satisfy vocal proficiency as determined by the voice faculty.

**Foreign Language:** Bachelor of Music Performance voice majors are required to complete one semester (5 credits-UNI) at the college/university level in each of two of the following foreign languages, listed

in order of preference: Italian, German, French. Ten (10) semester hours of credit in a foreign language are strongly recommended for students whose applied concentration is voice (Music Education Major) and for all non-voice majors on the Bachelor of Music Performance program.

**Large Ensembles:** In addition to applied music, all music majors must participate in at least one of the designated large ensembles for a minimum of 8 semesters (7 semesters for students in the music education program). Participation in large ensembles will be continuous from the first semester of residence until completion of the requirement. Participation in ensemble (530:012; 530:112) does not satisfy the large ensemble requirement. Auditions are required for all ensembles in the School of Music, and students will be assigned to ensembles according to audition results.

- Wind and percussion students will be assigned to an appropriate instrumental ensemble. All wind and percussion students who are pursuing the degree of Bachelor of Music in Music Education are required to participate in marching band for a minimum of two semesters. (It is strongly recommended that this requirement be fulfilled during the freshman and sophomore years.)
- In the fall semester, participation in either Concert Band or Jazz Band II may satisfy the large ensemble requirement for those students who have completed their respective marching band requirements and have met audition requirements for the two above ensembles.
- String players will participate in the orchestra.
- The initial choral ensemble for all freshmen voice students will be either UNI Singers or Women's Chorus. Freshmen are limited to participation in only one vocal ensemble. Students performing targeted roles in UNI Lyric Theatre main stage productions are exempt from ensemble participation for four (4) weeks preceding the final performance of the production.
- Composition and Keyboard majors will audition for either an instrumental ensemble or a choral ensemble. Keyboard majors in the music education program shall participate in an ensemble appropriate to their specialization.

## Bachelor of Arts Degree Programs

### Music Major

The Music major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

B.A. Music majors are not permitted to declare a double major within the School of Music.

Required:

Applied Music (540:xxx), including at least 4 hours of	
100-level work in major area.....	16 hours
Music Theory: 580:011; 580:012; 580:013; 580:014;	
580:015;580:016; 580:017; 580:018; 580:025;	
580:026; 580:027;580:028; 580:110.....	18 hours
Music History and Musicology: 590:005; 590:010;	
590:011.....	8 hours
Electives in music (limited to 100-level courses in the following	
areas only: 560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx.	
Students who choose composition as their concentration	
will elect 580:125.).....	4 hours
	46 hours
Additional requirements: senior recital (half recital) - (may take the	

form of a performance, composition, or an essay). Up to two credit hours of large ensemble, 530:1xx, may be counted toward the 100-level music elective.

## Minors

### Jazz Studies Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Jazz Studies minors are not permitted to declare the Jazz Specialization C within the Music Education Major.

Required:

Music, Organizations and Ensembles: 530:x16 (Jazz Bands and Combos).....	6 hours
Applied Music (540:xxx) .....	4 hours
Music Techniques: 560:152 .....	3 hours
Music Theory: 580:127; 580:128; 580:132.....	5 hours
Music History and Musicology: 590:160.....	3 hours
	<b>21 hours</b>

### Music Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Music, Organizations and Ensembles (530:xxx).....	2 hours
Applied Music (540:xxx) .....	4 hours
Music Theory: 580:011; 580:012; 580:015; 580:016; 580:025; 580:026.....	8 hours
Music History and Musicology: 590:005.....	2 hours
Electives in music (560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx) .....	8 hours
	<b>24 hours</b>

Departmental audition requirements apply to both of these minors.

## Bachelor of Music Degree Programs

### Composition-Theory Major

The B.M. Composition-Theory major requires a minimum of 121 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements to complete the minimum of 121 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Music Theory/Applied Music: .....	20 hours
Composition Class: 580:030 (2 hrs.); Music and Technology: 580:122 (2 hrs.) Applied Composition: 540:054 (4 hrs.); 540:154 (12 hrs.)	
Music, Organizations and Ensembles (530:xxx).....	8 hours
Applied Music: Applied Piano 540:060 (beyond 540:P46) ....	2 hours
Music Techniques: 560:017 or 560:018; 560:021 or 560:022; 560:052/560:152.....	6 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110; 580:125; 580:126.....	24 hours
Music History and Musicology: 590:005; 590:010; 590:011; 590:1xx or 595:1xx .....	11 hours

Electives in music: (100-level).....	8 hours
	<b>79 hours</b>

Additional requirements:

1. Senior Project: In the last semester before graduation, the student must have completed a large work for orchestra or wind symphony (or some other option with the consent of the composition faculty). The work will be given a reading, the date of which is to be determined by the director of the ensemble. The director shall also dictate the date of delivery for the score and parts. The student will prepare the score and parts using an industry standard computer notation/printing program such as Finale or Sibelius.
2. Majors are expected to present regular performances of their pieces on the Student Composers Concert series (minimum of six performances).
3. Majors must have a grade of B or better in Analysis 580:110 before they can take Counterpoint Survey 580:125.

### Music Education Major (Extended Program)

The B.M. Music Education major requires a minimum of 136 total hours for Specialization A, minimum of 137 total hours for Specialization B, and a minimum of 149 total hours for Specialization C to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), the specified major requirements to complete the minimum of 136, 137 or 149 hours (depending on specialization). Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Music, Organizations and Ensembles (530:xxx).....	7 hours
Applied Music (540:xxx) <b>see specializations below</b>	
Music Education and Methods: 570:050; 570:141 .....	5 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110.....	18 hours
Music History and Musicology: 590:005; 590:010; 590:011 .....	8 hours
CORE TOTAL (Applicable to all specializations below) .....	38 hours

Specialization A below .....28 hours

MAJOR TOTAL .....66 hours

Specialization B below.....29 hours

MAJOR TOTAL .....67 hours

Specialization C below .....39 hours

MAJOR TOTAL .....77 hours

### Specializations (choose A, B, or C below)–

#### Specialization A (Choral/General: K-8, 5-12)

Applied Music: (540:xxx) including at least 4 hours of 100-level work in major area.....	12 hours
Applied Music: Applied Piano 540:060 (taken beyond 540:P46) .....	2 hours
Music Techniques: 560:018; 560:022; 560:030; 560:031 .....	7 hours
Music Education and Methods: 570:010; 570:075; 570:130; 570:165.....	7 hours
	<b>28 hours</b>

## Program Requirements

### Music

#### Specialization B (Instrumental: K-8, 5-12)

Applied Music (540:xxx) including at least 4 hours of 100-level work in major area.....	14 hours
Music Techniques: 560:017; 560:021 .....	5 hours
Music Education and Methods: 570:010 (6 hrs., including one course each from brass, percussion, strings, and woodwinds); 570:161; 570:162; 570:163; 570:164.....	<u>10 hours</u>
	29 hours

#### Specialization C (Jazz: K-8, 5-12)

Applied Music (540:xxx) including at least 4 hours of 100-level work in major area.....	14 hours
Music Techniques: 560:017; 560:021; 560:052/560:152.....	8 hours
Music Education and Methods: 570:010; 570:161; 570:162; 570:163; 570:164.....	10 hours
Music Theory: 580:127; 580:128.....	4 hours
Music History and Musicology: 590:160.....	<u>3 hours</u>
	39 hours

**Note:** Music Education majors will meet the requirements of 250:150, Classroom Evaluation Instruments (Professional Education Requirements), by completing 570:141 (all majors), and 570:161, 570:162, 570:163, and 570:164 (instrumental and jazz majors); **or** 570:165 (Choral/General majors). They will meet the requirements of 240:020 Educational Media by completing 570:050, Introduction to Music Education. These options remain valid only for those students who complete their undergraduate degrees in music education.

#### Additional Major Requirements:

1. For all specializations: degree recital (half recital).
2. For specialization C (Jazz): two (2) semesters of jazz combo are required in addition to the large ensemble requirement (7 hours) of orchestra, chorus or band.
3. For all specializations: students must have a minimum grade of C in all music subjects in order to qualify for student teaching.
4. Large ensemble requirements for guitar majors can be fulfilled by participation in either Jazz I, II, III, or IV, or a jazz combo.
5. Guitar majors may not pursue the Music Education with Jazz specialization degree.
6. Students declaring the Jazz Specialization C cannot double major in Instrumental Specialization B within the Music Education Major.

### Performance Major

The B.M. Performance major requires a minimum of 122 total hours to graduate for Track A (Instrumental) and 132 hours to graduate for Track B (Vocal). This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements to complete the minimum of 122 hours (Track A) and 132 hours (Track B). Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Track A (Instrumental)

Required:

Music, Organizations and Ensembles (530:xxx).....	8 hours
Applied Music (540:xxx) including at least 12 hours of 100-level work in the major area.....	22 hours
Music Techniques: 560:017; 560:021 .....	5 hours
Music Pedagogy: 570:138 (instrumental majors) or 570:148 (keyboard majors).....	2 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110; 580:122; 580:1xx.....	23 hours

Music History and Musicology/Performance Literature and Repertory: 590:005; 590:010; 590:011; 595:120; 590:1xx and/or 595:1xx.....	13 hours
Electives: 540:xxx (maximum of 4 hrs.); 560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx only .....	<u>7 hours</u>
	80 hours

#### Track B (Vocal)

Required:

Music, Organizations and Ensembles (530:xxx).....	8 hours
Applied Music (540:xxx) including at least 12 hours of 100-level work in the major area.....	22 hours
Music Techniques: 560:018; 560:030; 560:031; 560:060; 560:161.....	8 hours
Music Pedagogy: 570:130 .....	2 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110; 580:122.....	20 hours
Music History and Musicology/Performance Literature and Repertory: 590:005; 590:010; 590:011; 595:120; 590:1xx and/or 595:1xx.....	13 hours
Electives: 540:xxx (maximum of 4 hrs.); 560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx only .....	<u>7 hours</u>
	80 hours

#### Additional Requirements (both tracks):

1. Junior recital (half recital).
2. Senior recital (full recital).
3. Voice majors are required to complete two Language and Culture I courses (3 hours each-UNI) and two Communication Practice I courses (2 hours each-UNI) from the following foreign languages listed in order of preference: Italian, German, French; and are strongly recommended to take Performance Literature for Voice II, 595:120.

**Note:** Performance majors who desire teaching licensure can complete the music methods requirements under the Music Education major (pages 183-184) and the Professional Education Requirements (page 51).

## Master of Arts Degree Program

### Major in Music

*Students wishing to take a course for graduate credit in the School of Music, or wishing to pursue a degree program in this department, must consult with the **Associate Director of the School of Music for Graduate Studies** prior to registration for any course. Detailed information concerning requirements and procedures will be provided, and specified evidence of previous accomplishments will be reviewed.*

The M.A. Major in Music involves a course of study comprising a minimum of specialization in an applied area and a maximum of curricular flexibility. (Master of Music majors are listed immediately following the M.A. in Music.)

An applicant for a graduate degree program in the School of Music should possess the baccalaureate degree in music or a demonstrated equivalent. The student should have attained a high degree of proficiency in one or more of the following areas: performance, theory-composition, music education, or music history. Applicants must audition in person in their applied specialization (an audio recording would be accepted if the in-person audition would pose undue hardship).

The Graduate Record Examination (General Test) **is not** required

for admission to the program.

A prospective major must take a written diagnostic examination in the areas of theory, music history, and expository writing skills. This examination normally is taken immediately prior to initial registration as a graduate student. If necessary, a student will take courses to make up any deficiency; such courses will not count toward degree requirements.

Successful completion of a final comprehensive written examination is required for both **thesis** and **non-thesis** options. This examination normally will take place after the candidate has completed the course work required for the degree. **The grade B- or above is required for all courses in the Graduate Music Core.** Under extenuating circumstances, exceptions to this policy must be approved by the instructor of record, the Associate Director for Graduate Studies and the Director of the School of Music. For discussion of credit for applied music under the M.A. degree, see pages 265-267. For more information visit [www.uni.edu/music](http://www.uni.edu/music).

Students who plan to receive the degree Master of Arts (M.A.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the School of Music for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

## Program Requirements

This major is available on the **thesis** and **non-thesis** options, and requires a **minimum of 30 semester hours**. Students selecting the non-thesis option will write a research paper. **A minimum of 15 hours of 200-level course work is required for the thesis option, including 6 hours of 5xx:299 Research. A minimum of 12 hours of 200-level course work is required for the non-thesis option, including 3 hours of 5xx:299 Research (course prefix 520-595).**

Required Graduate Music Core:

Music Theory: 580:210; 580:211.....	6 hours
Music History and Musicology: 590:221.....	2 hours
Music Literature: one course from the following - 590:110; 590:111; 590:112; 590:114; 590:115.....	3 hours
Specialization: Applied Music (540:1xxg).....	4 hours
Research.....	3-6 hours
(6 hours of 5xx:299 Research for thesis option - with course prefix 520-595)	
(3 hours of 5xx:299 Research for non-thesis option - with course prefix 520-595)	

Electives: music (all areas except applied music).....8 hours  
Other electives as approved by the department..... 1-4 hours  
30 hours

## Master of Music Degree Programs

*Students wishing to take a course for graduate credit in the School of Music or wishing to pursue a degree program in this department must consult with the **Associate Director for Graduate Studies in Music** prior to registration for the course. Detailed information concerning requirements and procedures will be provided, and specific evidence of previous accomplishments will be reviewed.*

The Master of Music degree is a professional degree designed to prepare the graduate for: 1) enhanced opportunity in public and private school music teaching, 2) a college teaching career, 3) a performance career as a professional musician or composer, or 4) further graduate work

at the doctoral level. The following majors are offered:

Composition  
Conducting  
Jazz Pedagogy  
Music Education  
Music History  
Performance  
Piano Performance and Pedagogy

An applicant for a graduate degree program in the School of Music should possess the baccalaureate degree in music or a demonstrated equivalent. The student should have attained a high degree of proficiency in one or more of the following areas: performance, theory-composition, conducting, music education, or music history. In addition to the common regulations and requirements applicable to all master's degree programs, the following are required for admission to the specific major:

**Composition majors:** portfolio and, if possible, tape recordings of compositions.

**Conducting majors:** in-person audition and interview with at least two members of the Graduate Conducting faculty. It is also recommended the applicant have two years of conducting experience beyond the baccalaureate degree. A video recording may be submitted in lieu of the in-person audition, but may not satisfy the audition requirement. Tapes should be of high quality and show the applicant in rehearsal situations, though performance recordings may also be included. Video recordings should include two or three works of varying styles, and be taken so as to clearly indicate the conductor's facial and other physical gestures.

**Jazz Pedagogy:** in-person audition and interview.

**Music Education majors:** in-person or telephone interview with a member of the Graduate Music Education faculty.

**Music History majors:** scholarly paper.

**Performance majors and Piano Performance and Pedagogy majors:** in-person audition (a tape recording would be accepted if the in-person audition would pose undue hardship).

A prospective major must take a written diagnostic examination in the areas of theory, music history, expository writing skills, and in the area of claimed competency, if different from the above (e.g., piano, brass, or woodwind instruments). This examination normally is taken immediately prior to initial registration as a graduate student. If a student is required to take remedial courses to make up any deficiency in preparatory work, those courses will not be counted toward degree requirements.

The Graduate Record Examination (General Test) **is not** required for admission to the Master of Music programs.

**A minimum of 15 semester hours of 200-level course work is required of all majors enrolled for the thesis/recital option. The thesis option requires a minimum of 6 semester hours of 5xx:299 Research. A minimum of 12 semester hours of 200-level course work is required of all majors enrolled for the non-thesis option (520-595 course prefix).**

Successful completion of an oral and written comprehensive examination is required of all students in this degree program. This examination normally will take place after the candidate has completed the course work required for the degree. **The grade B- or above is required for all courses in the Graduate Music Core as well as all core courses in the specific degree plans.** Under extenuating circumstances, exceptions to this policy must be approved by the instructor of record, the Associate Director of Graduate Studies and the Director of the School of Music. For more information go to [www.uni.edu/music](http://www.uni.edu/music).

Students who plan to receive the degree Master of Music (M.M.) must meet the graduate regulations and requirements for the master's program as described on pages 66-69 and the specific major requirements.

Students interested in this program must submit a completed Ap-

## Program Requirements

### Music

plication for Admission to Graduate Study and should contact the School of Music for any other admission requirements. Graduate Information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

### Major in Composition

This major is offered on the **thesis/recital** option only, and requires a **minimum of 34 semester hours. A minimum of 15 semester hours of 200-level course work is required.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....6 hours  
 Music History and Musicology: 590:221 .....2 hours  
 One course from the following -  
 590:110; 590:111; 590:112; 590:114; 590:115 .....3 hours

Specialization:

Applied Music: 540:254.....12 hours  
 Music electives: 11 hours, primarily in the areas  
 of music literature and theory .....11 hours

Recital: 540:288 ..... 0 hours  
 34 hours

*Additional Requirements:*

1. Performance recital of candidate-generated compositions.
2. Recital paper.

### Major in Conducting

This major is offered on the **thesis/recital** option only, and requires a minimum of 36 semester hours. A **minimum of 15 semester hours of 200-level course work is required.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....6 hours  
 Music History and Musicology: 590:221 .....2 hours  
 One course from the following -  
 590:110; 590:111; 590:112; 590:114; 590:115 .....3 hours

Specialization:

Music Organizations and Ensembles: 530:1xx\* .....4 hours  
 (Only one hour of ensemble per semester will  
 count toward degree requirements.)

Applied Music: 540:221 or 540:222.....12 hours  
 Performance Literature and Repertory: 595:131  
 or 595:140 or 595:142.....3 hours

Recital: 540:288.....0 hours  
 Music electives: as approved by advisor..... 6 hours  
 36 hours

\*Large ensemble placement will be determined by audition.

*Additional requirements:*

1. Two consecutive semesters (fall/spring) of residency with fulltime status (minimum of 9 graduate hours per semester).
2. Conducting recital.
3. Recital paper.
4. Conducting document (research paper).
5. Score reading:
  - A. *Choral Conducting Majors* - Ability to read and perform at the keyboard (allowing some time for advance preparation) an SATB open score of medium difficulty (e.g., Palestrina motet).

B. *Instrumental Conducting Majors* - Ability to read and interpret a moderately complex instrumental score.

6. Students are required to enroll in applied music in their performance area during the semester that they present their required recital.

### Major in Jazz Pedagogy

This major is offered on the **thesis/recital** option only, and requires a minimum of 36 semester hours. A **minimum of 15 semester hours of 200-level course work is required.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....6 hours  
 Music History and Musicology: 590:221 .....2 hours  
 One course from the following -  
 590:110; 590:111; 590:112; 590:114; 590:115 .....3 hours

Specialization:

Music Techniques: 560:152 or 560:252\*; 570:252 .....4 hours  
 Music Theory: 580:127; 580:128; 580:132 .....5 hours  
 Music Organizations and Ensembles: 530:116 .....8 hours  
 (2 hrs. in jazz ensembles participation  
 required each semester of residence)

Research: 560:299 .....3 hours  
 Recital: 540:288.....0 hours

Music electives.....5 hours

To be selected from the following:

Applied Music: 540:140; 540:153; 540:156; 540:157.  
 Music Theory: 580:122.  
 Music History and Musicology: 590:160 preferred.

36 hours

\*Strongly recommended

*Additional requirements:*

1. Jazz performance recital.
2. Recital paper.
3. Jazz bass proficiency.
4. Jazz piano proficiency.
5. Jazz drum set proficiency.

### Major in Music Education

This major is available on the thesis and non-thesis options. Both options require a **minimum of 32 semester hours. A minimum of 15 semester hours of 200-level course work is required for the thesis option and a minimum of 12 semester hours of 200-level course work is required for the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....6 hours  
 Music History and Musicology: 590:221 .....2 hours  
 One course from the following -  
 590:110; 590:111; 590:112; 590:114; 590:115 .....3 hours

Music Education core:

Research in Music Education and Methods:  
 570:221; 570:299.....6 hours  
 Music Education and Methods: 570:230; 570:255;  
 570:282.....9 hours

Music Education electives as approved by music education faculty



(choose from the following)

530:1xxg (1-2); 540:1xxg (1-4); 560:121; 560:122; 560:135;	
560:152; 570:130; 570:145; 570:153; 570:175; 570:197;	
570:287; 580:127; 590:151; 595:131; 595:140;	
595:142 .....	6 hours
	32 hours

***Thesis Option (contingent on availability of faculty):***

Required:

Research: 570:299 (in lieu of 3 hours of electives)

**Note:** A maximum of 2 hours of ensembles (530:xxx) and 4 hours of applied music (540:xxx) may be counted toward fulfilling minimum degree requirements.

## Major in Music History

This major is offered on the **thesis** option only, and requires a minimum of 30 semester hours. A **minimum of 15 semester hours of 200-level course work is required.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....	6 hours
Music History and Musicology: 590:221 .....	2 hours
One course from the following -	
590:110; 590:111; 590:112; 590:114; 590:115 .....	3 hours

Specialization:

Music History and Musicology: 590:299 (research for thesis - 6 hrs.);

590:1xx (music literature - 6 hrs.).....12 hours

Electives: (maximum of 2 hrs. may be in applied music) ..... 7 hours  
30 hours

*Additional requirement:*

Reading proficiency in either German or French.

## Major in Performance

This major is offered on the **thesis/recital** option only, and requires a **minimum of 32-36 semester hours (depending on specialization chosen).** A **minimum of 15 semester hours of 200-level course work is required of all majors enrolled for the thesis/recital option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....	6 hours
Music History and Musicology: 590:221 .....	2 hours
One course from the following -	
590:110; 590:111; 590:112; 590:114; 590:115 .....	3 hours
Recital: 540:288.....	0 hours

Specialization: (Choose A or B)..... 21-25 hours  
32-36 hours

## Specialization:

### A. Wind, Percussion, Keyboard or Strings Major

Music Ensemble: 530:1xx(g)***.....	2-4 hours
Applied Music: 540:2xx (variable).....	10 hours
Performance Literature and Repertory*: 595:120 .....	2-4 hours
Music electives: primarily in the areas of music theory	
and music literature .....	<u>5-7 hours</u>
	21-23 hours

### B. Voice Major

Choral Ensemble: 530:110 and 530:119*** .....	2 hours
Applied Music: 540:223 .....	4 hours
Applied Music: 540:249 .....	8 hours
Music Techniques: 560:145; 560:154; 560:161 .....	5 hours
Performance Literature and Repertory: 595:120**	
(section 8, 9, 10, or 12) .....	4 hours
Music Education and Methods: 570:130.....	<u>2 hours</u>
	25 hours

\*Keyboard majors are required to take 595:120 sections 03 and 04.

\*\*595:120 section 08 is required if vocal literature has not been taken at the undergraduate level.

\*\*\*Students in the Voice major must take one semester of either Chamber Singers or Concert Chorale (to be determined upon formal audition for the choral conducting staff), and one semester of Opera Performance Ensemble. Instrumental majors will choose Jazz Band I, Symphony Orchestra, Symphonic Band, or Wind Symphony, but only 2 hours of Jazz Band I may be counted toward minimum degree requirements. String majors are required to complete 4 hours of ensemble 530:117(g) Symphony Orchestra. Chamber Music and/or accompanying may be elected by keyboard majors.

*Additional requirements:*

- Two consecutive semesters (fall/spring) of residency with fulltime status (minimum of 9 graduate hours per semester).
- Performance recital.
- Recital paper.
- Two successful applied jury examinations (grades A or B).
- Voice majors must:
  - Demonstrate diction proficiency (by diagnostic examination) in English, Italian, German, and French at the level of Diction II (560:031). Otherwise one must successfully complete 560:030 and/or 560:031.
  - Have successfully completed one semester of college-level study in two of the following languages: Italian, German, or French prior to entering UNI. Otherwise one must fulfill this requirement during the residency at UNI.
- Students are required to enroll in applied music in their performance area during the semester they present their recital.

## Major in Piano Performance and Pedagogy

This major is offered on the **thesis/full recital** and **non-thesis/half solo recital and pedagogy** options. Both options require a **minimum of 33 semester hours. A minimum of 15 semester hours of 200-level course work is required of all majors enrolled for the thesis/full recital option. A minimum of 12 semester hours of 200-level course work is required of all majors enrolled for the non-thesis/half solo recital and pedagogy option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 .....	6 hours
Music History: 590:221 .....	2 hours
One course from the following -	
590:110; 590:111; 590:112; 590:114; 590:115 .....	3 hours

Piano performance:

Applied Music: 540:246.....	6 hours
Music Literature: 595:120 (Piano I); 595:120	
(Piano II) .....	4 hours

Piano pedagogy:

Music Education and Methods: 570:148; 570:149;

## Program Requirements

### Music/Philosophy & World Religions

570:257; 570:258; 570:260.....	10 hours
Electives .....	2 hours
Recommended: 530:112; 540:246; 560:135; 570:250; 570:260; 570:285; 580:122.	
	<hr/> 33 hours

#### Additional requirements:

Final project-

Options: Full solo recital/recital paper  
Half solo recital and pedagogy project  
(Pedagogy project: workshop or research paper)  
Students are required to enroll in applied music in  
their performance area during the semester they  
present their recital.

## Program Certificates

### Artist Diploma (I) (II) Graduate Certificate

The Artist Diploma is a non-degree-granting professional program awarded by the School of Music for the successful completion of performance studies combined with general music studies. The curricular content of the proposed Artist Diploma program is designed to provide the student aspiring toward a professional career the opportunity to study and perform solo literature and chamber music without taking all the academic course requirements of a masters degree.

The Artist Diploma serves the needs of international and national students who are extremely talented, career minded, and dedicated to the art of music-making. Admission is considered once the student has completed a baccalaureate degree, or the international equivalent, and taken an in-person audition (a tape recording would be accepted if the in-person audition would pose undue hardship). Applicants not holding the baccalaureate degree or its equivalent but who have extensive study with a master teacher and noted performing experience, may apply. Interested students should contact the Associate Director of Graduate Studies within the School of Music.

### Artist Diploma (I)

Diploma (I) may be completed in two semesters, and requires a minimum of 14 hours in the following program:

#### Required:

Applied Music: 540:2xx .....	6 hours
Ensemble, or chamber ensemble, or opera performance, or accompanying .....	2 hours
Electives in music .....	6 hours
(Courses must be selected from 100g and 200-level offerings available during the period of residency. Vocal students may include up to 3 hours of foreign language study. Only 2 hours of ensemble credits beyond the requirements will count toward music electives. No additional applied music hours will count toward music electives.)	
	<hr/> 14 hours

#### Additional requirements:

- Applied jury examination as required.
- One full solo recital.
- All course work must be completed with a grade of B or higher,  
and applied study with a grade of A.

### Artist Diploma (II)

Diploma (II) may be completed in four semesters, and requires a minimum of 28 hours in the following program:

#### Required:

Applied Music: 540:2xx .....	12 hours
Ensemble, or chamber ensemble, or opera performance, or collaborative playing .....	4 hours
Electives in music .....	12 hours
(Courses must be selected from 100g and 200-level offerings available during the period of residency. Vocal students may include up to 6 hours of foreign language study. Only 4 hours of ensemble credits beyond the requirements will count toward music electives. No additional applied music hours will count toward music electives.)	
	<hr/> 28 hours

#### Additional requirements:

- Applied jury examination as required.
- Two full solo recitals.
- All course work must be completed with a grade of B or higher,  
and applied study with a grade of A.

## Department of Philosophy and World Religions

### (College of Humanities and Fine Arts)

[www.uni.edu/philrel](http://www.uni.edu/philrel)

*J. Soneson, Interim Head. K. Atkinson, E. Boedeker, H. Brod, S. Clayton,  
W. Clohesy, B. DeBerg, F. Degnin, S. Hill, M. Holland, M. Lahroodi, M.  
Reineke, J. Robinson, D. Wood.*

The Department of Philosophy and World Religions offers the following undergraduate programs and program certificate. Specific requirements for these programs are listed within this Department of Philosophy and World Religions section in the following order:

#### Undergraduate Majors (B.A.)

Philosophy  
Study of Religion  
Philosophy/Religion/Business: Combined Five-Year  
B.A./M.B.A. Program

#### Minors

Ethics  
Philosophy  
Religion

#### Program Certificate

Youth Development in Religious Settings Certificate

## Bachelor of Arts Degree Programs

### Philosophy Major

The Philosophy major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Required:

Philosophy: 650:045; 650:142; 650:150 .....	9 hours
At least three of the following: 650:100; 650:101; 650:103; 650:104 .....	9-12 hours
Electives from the following: 650:021; 650:105; 640/650:113; 650:119; 650:143; 640/650:152; 650:151/CAP:151; 650:153; 650:160; 650:164; 650:166; 650:172; 640/650:250 .....	9-12 hours

## Program Requirements Philosophy & World Religions

Additional electives in philosophy ..... 6 hours  
36 hours

### Major in the Study of Religion

The Study of Religion major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

#### Required:

at least 9 hours from the following category:  
Historical and Cultural Studies of Religion: 640:130;  
640:132; 640:134; 640:136 ..... 9 hours  
at least 6 hours from each of the following categories:  
Textual and Analytic Studies of Religion: 640:030;  
640:110; 640/650:113; 640:126; 640:141;  
640:142; 640:154; 640:158 ..... 6 hours  
Social and Ethical Studies in Religion: 640:115;  
640:138; 640:140; 640/650:152; 640:162; 640:165;  
640:168; 640:171 ..... 6 hours

Electives in world religions (not more than two from  
640/650/CAP:173; 640/650:174; 640/650:175; 640/650:197;  
640/650:250) ..... 15 hours  
36 hours

### Pre-Theological Emphasis

Students preparing for ministry or for graduate professional education in theology at a seminary or divinity school, regardless of major, are advised to consult with the pre-theological advisor, who will help them to know the requirements of individual schools and to plan an undergraduate program appropriately designed for their professional interests.

### Philosophy/Religion/Business: Combined Five-Year B.A./M.B.A. Program

The UNI College of Business Administration and the Department of Philosophy and World Religions jointly offer a five-year program in two combinations leading to a Bachelor of Arts degree (B.A.) and a Master of Business Administration degree (M.B.A.). They are Philosophy B.A./M.B.A. and Religion B.A./M.B.A. This five-year program is ideal for students who want a sound foundation in the liberal arts and an education in business leadership. Students should declare their intention to enroll in this program no later than the middle of their sophomore year.

## Minors

### Ethics Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Ethics minor is intended to provide students of diverse major fields of study a way to focus and develop their interest in ethics both by offering them a core of courses essential to an understanding of the field of ethics and by advising them in the selection of courses that enable them to develop depth and detail in theoretical, professional and applied ethics.

#### Required:

World Religions: 640:171 ..... 3 hours  
Philosophy: 650:142 ..... 3 hours

one of the following ..... 3 hours  
World Religions: 640:024; 640:040.  
Philosophy: 650:021; 650:050.

one of the following ..... 3 hours  
Philosophy or World Religions:  
640/650/CAP:173; 640/650:174; 640/650:175.  
Philosophy: 650:245.

Electives: At least one of the following ..... 3 hours  
15 hours

#### List of electives:

Management: 150:100.  
Finance: 160:162.  
Teaching: 280:170.  
Psychology: 400:160.  
Social Work: 450:194.  
Communication: 48C:108; 48C:128/CAP:128.  
World Religions: 640:115.  
Philosophy: 650:105; 650:164; 650:172.  
Philosophy or World Religions: 640/650:152; 640/650/CAP:194;  
640/650:197.  
Humanities: 680:130.  
Political Science: 941:160; 941:161.  
History: 961:122; 961:142; 963:161.  
Sociology: 980:148.

### Philosophy Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

#### Required:

Philosophy: 650:021 ..... 3 hours  
Two courses in history of philosophy series ..... 6 hours  
Electives in philosophy ..... 12 hours  
21 hours

### Religion Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

#### Required:

World Religions: 640:024; 640:141 or 640:142 ..... 6 hours  
Electives in world religions ..... 15 hours  
21 hours

## Program Certificate

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificate, contact the Department of Philosophy and World Religions or the Office of the Registrar, which serves as the centralized registry.

### Youth Development in Religious Settings Certificate

The Youth Development in Religious Settings certificate prepares students for work with young people in a variety of religious organizations and contexts. This interdisciplinary program is offered by the Department of Philosophy and World Religions.

## Program Requirements

### Philosophy & World Religions/Physics

Required:

Youth and Human Service Administration: 430:060;	
430:154; 430:155; 430:157 .....	12 hours
World Religions: 640:024; 640:141; 640:142.....	9 hours
Elective: one of the following.....	3 hours
World Religions: 640:040; 640:117; 640:130; 640:132;	
640:134; 640:136; 640:171.	
Philosophy: 650:050.	
	<hr/> 24 hours

## Department of Physics

### (College of Natural Sciences)

**www.physics.uni.edu**

*C. Chancey, Head. F. Behroozi, K. Couch Breitbach, J. Deisz, L. Escalada, T. Kidd, J. Morgan, D. Olson, M. Roth, P. Shand.*

The Department of Physics offers the following undergraduate and graduate programs. Specific requirements for these programs are listed within this Department of Physics section in the following order:

#### Undergraduate Majors (B.S.)

Applied Physics  
Physics

#### Undergraduate Majors (B.A.)

Physics  
Physics—Teaching  
Combined B.A./P.S.M. or B.S./P.S.M. Applied Physics

#### Minors

Nanoscience and Nanotechnology  
Physics  
Physics—Teaching

#### Graduate Major (P.S.M.)

Applied Physics

The Department of Physics offers major programs in two baccalaureate areas: the Bachelor of Science and the Bachelor of Arts. The B.S. Physics major is recommended for students who wish to prepare for graduate study in physics, engineering, or other sciences such as geophysics, astronomy, biophysics, or medical physics.

The B.S. Applied Physics major is especially suitable for students seeking industrial or other applied employment after the B.S. degree. It could also serve as a background for graduate study in some applied science or engineering areas.

The B.A. Physics major is for students (including double majors) desiring a broad background in science or who are taking a substantial amount of work in other areas. With appropriate choice of electives the B.A. Physics major meets the needs of pre-medical and pre-law students and students planning careers in science-related administration, business, or technical writing.

The B.A. Physics Major Teaching is for students preparing to be physics teachers at the secondary school level.

## Bachelor of Science Degree Programs

**Note:** To graduate with a B.S. degree in Physics or Applied Physics, a student must earn an overall grade point average of at least 2.50 in all courses applied toward the major.

## Applied Physics Major

The B.S. Applied Physics major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061; 800:062; 800:076;	
800:149.....	18 hours
Computer Science: 810:036.....	3 hours
Chemistry and Biochemistry: 860:044 and 860:048,	
or 860:070 .....	5-8 hours
Physics: 880:130; 880:131; 880:132; 880:137; 880:138;	
880:187.....	18 hours
Choose ONE of the following two options.....	<u>22 hours</u>
	66-69 hours

### Option 1: Applied Physics

Required:

Physics: 880:140; 880:150; 880:152; 880:154; 880:174;	
880:179 (2 hrs.) or 880:184 (2 hrs.) .....	19 hours
Electives in physics: 100-level (may include 870:130) .....	<u>3 hours</u>
OPTION 1 TOTAL	22 hours

### Option 2: B.S. Applied Physics/Engineering Dual-Degree Major

Qualified students may pursue a dual-degree major leading to a B.S. Applied Physics degree from the University of Northern Iowa (UNI) and a B.S. engineering degree from Iowa State University (ISU) or the University of Iowa (UI). This requires approximately three years of attendance at UNI followed by approximately two years of attendance at ISU or UI. Students who successfully complete the UNI part of the major are guaranteed admittance into the ISU or UI portion of the major if they have: an average of at least B (3.00 GPA) in all course work; an average of at least B (3.00 GPA) in the chemistry and biochemistry, mathematics, and physics courses required by the UNI Department of Physics; and the positive recommendation of the Head, Department of Physics.

The engineering courses completed toward a B.S. engineering degree at ISU or UI will be transferred to UNI to provide 6-9 credit hours of electives for the applied physics portion of the major. The UNI internship requirement will be satisfied through comparable practical experience at ISU or UI that has been approved by the Head, Department of Physics, UNI.

In the first three years at UNI students in the major must complete at least 90 semester credit hours of course work. In addition to the courses listed above, the students are expected to complete courses to satisfy the Liberal Arts Core requirements. Credit, but no grades, for courses at UNI passed with a grade of C or better will be transferred to ISU or UI as credit for equivalent courses there, even though they may not be required by the engineering curriculum selected by the student.

During the years at ISU or UI, students will complete the requirements specified in the College of Engineering Catalog at the time of their admission. Course work completed at ISU or UI will be transferred to UNI to complete the requirements for the applied physics portion of the major. Upon successful completion of the major, students will be eligible to participate in commencement ceremonies at both UNI and either ISU or UI.

Required:

Physics: 880:140; 880:150; 880:152; 880:154; 880:174 .....	17 hours
--	----------

Physics electives:.....5 hours  
(Course work must be completed at ISU or UI that satisfies the UNI requirements of 3 credit hours of electives in Applied Physics. The UNI internship requirement [2 hours] will generally be satisfied through comparable practical experience at ISU or UI that has been approved by the Head, Department of Physics, UNI.)

OPTION 2 TOTAL 22 hours

## Physics Major

The B.S. Physics major requires a minimum of 126 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 126 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061; 800:062; 800:076;  
800:149 .....18 hours  
Chemistry and Biochemistry: 860:044 and 860:048,  
or 860:070 ..... 5-8 hours  
Computer Science: 810:036.....3 hours  
Physics: 880:130; 880:131; 880:132; 880:136; 880:137;  
880:138; 880:150; 880:166; 880:167; 880:172;  
880:180 (2 hrs.); 880:187 .....39 hours

Electives:

Physics: 100-level (may include 870:130) .....3 hours  
68-71 hours

## Bachelor of Arts Degree Programs

### Physics Major

The B.A. Physics major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061 .....8 hours  
Physics: 880:130; 880:131; 880:132; 880:137; 880:138;  
880:152 .....21 hours

Electives:

Mathematics or Computer Science ..... 3-4 hours  
One of the following: 800:062, 800:076, or 810:036.  
Physics: 100-level .....7 hours  
College of Natural Sciences.....14 hours  
Elective courses must be ones that count toward a major in the department in which the course is offered or courses numbered 830:xxx.

53-54 hours

### Physics Major-Teaching

The B.A. Physics major in teaching requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Mathematics: 800:060; 800:061 .....8 hours  
Science and Science Education: 820:190; 820:193; 820:196...8 hours  
Physics: 880:130; 880:131; 880:132; 880:137; 880:138 .....17 hours

Electives:

Physics: (all 100-level courses).....7 hours  
Non-physics science courses from the College of Natural Sciences (excluding all 820:xxx and mathematics below 800:060)..... 6 hours

46 hours

Sufficient work including current curricula should be taken for licensure approval in a second area. Common teaching combinations are physics-chemistry or physics-mathematics.

Completion of this major will satisfy the requirements of the Iowa Department of Education for licensure.

## Combined B.A./P.S.M. or B.S./P.S.M. Applied Physics

The B.A./P.S.M. or B.S./P.S.M. degree program is a five-year program offered on the **non-thesis** option only, leading to both the B.A./B.S. in physics or applied physics and the P.S.M. degree in applied physics. This degree program prepares students for careers in applied physics or engineering businesses and industries. Emphasis is placed on blending core physics knowledge and applied skills with an understanding of business and an internship experience. Students interested in this program may declare their intent by the end of the junior year, provided they have completed 880:150 and have an overall grade point average (GPA) of 3.00 or above. An Application for Admission to Graduate Study should be completed and the student's interest in the Combined B.A./P.S.M. or B.S./P.S.M. Program in Applied Physics indicated on the application itself. Application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Once admitted to the program, undergraduate students (who are classified as seniors), may register for **graduate credit as a senior, with the approval of the department head** (see guidelines on pages 43, 61-62). The student presents a signed Student Request form (with appropriate signatures), when registering for graduate credit as a senior. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester or 8 hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the course work is taken. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

## Minors

### Nanoscience and Nanotechnology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Industrial Technology: 330:188 .....3 hours  
Mathematics: 800:060; 800:061 .....8 hours  
Chemistry and Biochemistry: 860:044 and 860:048,  
or 860:070 ..... 5-8 hours  
Physics: 880:054 or 880:130; 880:056 or 880:131;

## Program Requirements Physics/Political Science

880:144 or 860:144; 880:148 or 860:148 .....14 hours  
30-33 hours

Physics: 880:140; 880:144; 880:148; 880:150; 880:152;  
880:155; 880:166; 880:167; 880:172; 880:174.

30 hours

## Physics Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Physics: 880:054 and 880:056; or 880:130 and 880:131 .....8 hours  
Electives from the following.....12 hours  
Physics: 880:140; 880:144; 880:148; 880:152; 880:154;  
880:187.  
20 hours

## Physics Minor–Teaching

The Physics Minor–Teaching provides for a second endorsement approval by the Iowa Board of Educational Examiners and requires first endorsement approval (major) in another science discipline or general science.

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Science and Science Education: 820:190; 820:193; 820:196...8 hours  
Physics: 880:054 or 880:130; 880:056 or 880:131 .....8 hours  
Electives in Physics: 100-level courses (including no more than  
4 hours from 880:152 and 880:154) .....14 hours  
30 hours

## Professional Science Master's Degree Program

### Major in Applied Physics

This major is available on the **non-thesis** option. A **minimum of 30 hours** is required. A **minimum of seventeen (17) hours of 200-level course work is required on the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of an oral comprehensive examination is required for this non-thesis option.

The Professional Science Master's Degree in Applied Physics prepares students for careers in applied physics or engineering businesses and industries. Emphasis is placed on blending core physics knowledge and applied skills with an understanding of business and an internship experience. Admission is restricted to students with a GPA of 3.00 or higher and a B.A. or B.S. in Physics or a related discipline. To be admitted, students must also have taken the following courses or their equivalents: Physics III (880:132) or equivalent; Modern Physics (880:137); and Modern Physics Laboratory (880:138) or a physics laboratory course at an equivalent level.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Mathematics: 800:121.....3 hours  
Science and Science Education: 820:209; 820:215;  
820:289; 820:295.....11 hours  
Physics: 880:160; 880:205; 880:220 .....9 hours  
Electives: (Physics electives 100g or above).....7 hours

## Department of Political Science

### (College of Social and Behavioral Sciences)

[www.uni.edu/polisci](http://www.uni.edu/polisci)

P. Mauceri, Head. P. Agbese, K. Basom, R. Hays, D. Hoffman, J. Holmes,  
A. Kogl, C. Larimer, M. Licari, R. McNeal, D. Moore, C. Peters, D. Vajpeyi,  
T. Yu.

The Department of Political Science offers the following undergraduate programs and program certificates. Specific requirements for these programs are listed within this Department of Political Science section in the following order:

#### Undergraduate Majors (B.A.)

Political Communication (also listed in Department of  
Communication Studies)  
Political Science—Liberal Arts  
Political Science—Teaching  
Public Administration

#### Minors

International Affairs—Liberal Arts  
Political Science—Liberal Arts  
Political Science—Teaching  
Politics and Law

#### Program Certificates

Certificate in International Peace and Security  
Certificate in State and Local Government

## Bachelor of Arts Degree Programs

### Political Communication Major

The Political Communication major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required core:

Communication: 48C:160; 48C:180 or 48C:183  
or 48C:189 .....6 hours  
Journalism: 48J:002 .....3 hours  
Political Science: 942:014; 943:024 .....6 hours  
History: 961:116 .....3 hours  
Geography: 970:114.....3 hours  
Internship .....4 hours  
Communication: 48C:197 or  
Political Science: 940:181.

Emphases (select two areas of focus with 6 hours from

each area) .....12 hours  
37 hours

**Focus Area 1: State and Local Public Affairs (6 hours)**

Political Science: 942:048; 942:131; 942:132.

**Focus Area 2: Political Campaigns and Elections (6 hours)**

Political Science: 942:112; 942:134; 942:150; 942:151.

**Focus Area 3: International Affairs (6 hours)**

Political Science: 943:119; 943:143; 943:145.

Geography: 970:116.

**Focus Area 4: International Communication (6 hours)**

Communication: 48C:151.

Journalism: 48J:151.

Public Relations: 48P:170.

**Focus Area 5: Decision-Making (6 hours)**

Communication: 48C:128/CAP:128; 48C:148; 48C:178.

**Focus Area 6: Political Discourse (6 hours)**

Communication: 48C:113; 48C:123; 48C:174.

Sociology: 980:138.

**Focus Area 7: Media Analysis (6 hours)**

Electronic Media: 48E:021; 48E:131; 48E:139; 48E:141; 48E:161.

## Political Science Major-Liberal Arts

The Political Science-Liberal Arts major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Political Science: 940:010; 941:050; 942:014; 943:024;

944:040 .....15 hours

Students must take at least one upper-level course in each of the four sub-fields of political science:

American Theory: 941:1xx .....3 hours

American Politics: 942:1xx .....3 hours

International Relations: 943:1xx .....3 hours

Comparative Politics: 944:1xx .....3 hours

Students must take one Senior Seminar in Political

Science 940:184 .....3 hours

Electives in political science .....9 hours

39 hours\*

\*Not more than 9 semester hours of political science taken within the International Affairs minor or Politics and Law minor may also be counted for credit on this major.

## Political Science Major-Teaching (Extended Program)

The Political Science-Teaching major requires a minimum of 129-135 total hours to graduate (depending on the minor chosen). This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 129-135 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Social Science: 900:190; 900:191 .....4 hours

Economics: 920:024 or 920:053 .....3 hours

Political Science: 940:010; 941:050; 942:014; 942:131 or 942:132;

942:134 or 942:151; 943:024; 944:040 .....21 hours

Electives in American politics .....9 hours

37 hours\*

A teaching minor is required in one of the social sciences.

\*Not more than 9 semester hours of political science taken within the International Affairs minor or Politics and Law minor may also be counted for credit on a political science major or minor (teaching or non-teaching).

## Public Administration Major

The Public Administration major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

**Required:**

Political Science: 940:010; 940:111; 942:014; 942:048;

942:153; 942:172; 942:173; 942:174; 942:188 .....27 hours

Internship: 940:181 .....4-8 hours

Area of concentration: choose one of the following

focus areas .....9 hours

40-44 hours

**Focus Area 1 — Economics and Finance (select 3 courses)**

Accounting: 120:030; 120:031.

Economics: 920:053; 920:054; 920:117\*; 920:125\*; 920:148.

Political Science: 940:176.

**Focus Area 2 — Community and Regional Development**

(select 3 courses)

Political Science: 940:176; 942:131; 942:132; 942:171\*\*.

Geography: 970:117; 970:164; 970:168; 970:174.

Criminology: 982:153\*\*\*.

**Focus Area 3 — Human Resources (select 3 courses)**

Management: 15A:153^; 150:165; 150:166.

Psychology: 400:157\*\*\*\*; 400:158\*\*\*\*.

Social Work: 450:163\*\*\*\*\*.

Communication Studies: 48C:132.

Political Science: 940:176.

\*920:053 and 920:054 are prerequisites for this course. **Both 920:053 and 920:054 may substitute for 920:024 which will satisfy Category 5B of the Liberal Arts Core.**

\*\*942:014 and 942:132 are prerequisites for this course.

\*\*\*980:001 and 982:022 are prerequisites for this course.

\*\*\*\*400:001 is prerequisite for these courses.

\*\*\*\*\*980:001 is prerequisite for this course.

^15A:153 is the designated course number for non-business majors who need to take 150:153.

## Minors

### International Affairs Minor-Liberal Arts

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The International Affairs minor is composed of 21 hours in political science and related disciplines. The requirements are as follows:

**Required:**

Political Science: 943:024; 944:040 .....6 hours

At least two of the following .....6 hours

Economics\*\*\*; 920:136.

Political Science: 943:119; 943:120; 943:125; 943:126;

943:127; 943:129; 943:143; 943:145; 944:121;

944:123.

## Program Requirements

### Political Science

At least one of the following.....	3 hours
Political Science: 944:135; 944:162; 944:164; 944:165; 944:167.	
Two of the following*: any <i>additional</i> electives of the <i>courses listed above</i> .....	6 hours
OR	
Communication: 48C:151.	
Journalism: 48J:151.	
French: 720:124; 720:125.	
German: 740:123; 740:150.	
Russian: 770:141; 770:142.	
Spanish: 780:120; 780:123; 780:152.	
Portuguese: 790:123.	
Economics***: 920:143; 920:175.	
History: 963:154; 963:157; 963:160; 963:169; 963:170; 963:172; 963:174; 964:175; 964:180; 964:182; 964:187.	
Geography: 970:114; 970:116; 970:141.	
Sociology: 980:177 or 990:177.	
Anthropology: 990:162.	

21 hours\*\*

\*This requirement may also be met by an internship approved by the Department of Political Science. Furthermore, students who have successfully completed four semesters at the college level of any foreign language, with at least a 2.00 GPA, or demonstrate an equivalent competency level can apply three credit hours toward the fulfillment of this requirement.

\*\*No more than 9 hours of political science for this minor can also be counted toward a teaching or non-teaching major in political science.

\*\*\*920:053 and 920:054 are prerequisites to all 100-level economics courses. Either 920:024 or **both** 920:053 **and** 920:054 will satisfy Category 5B of the Liberal Arts Core.

### Political Science Minor–Liberal Arts

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Political Science: 940:010; 941:050; 942:014; 943:024; 944:040 .....	15 hours
Electives in political science .....	3 hours
	18 hours*

\*Not more than 9 semester hours of political science taken within the International Affairs minor or Politics and Law minor may also be counted for credit on a political science major or minor (teaching or non-teaching).

### Political Science Minor–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Social Science: 900:190; 900:191 .....	4 hours
Political Science: 941:050; 942:014; 942:131 or 942:132; 942:134 or 942:151; 943:024; 944:040 .....	18 hours
Electives in American politics .....	6 hours
	28 hours*

\*Not more than 9 semester hours of political science taken within the International Affairs minor or Politics and Law minor may also be counted for credit on a political science major or minor (teaching or non-teaching).

## Politics and Law Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Politics and Law minor is intended to provide students with a general understanding of American legal institutions and how these institutions interact and influence our policy. The program equips students with a facility in legal reasoning and logic.

Required:

Philosophy: 650:045 .....	3 hours
Political Science: 942:014; 942:141; 942:146.....	9 hours
Two of the following .....	6 hours
Management: 150:105.	
Political Science: 942:144; 942:147.	
Criminology: 982:022; 982:162.	
One of the following.....	3 hours
Management: 150:101.	
Psychology: 400:070.	
Philosophy: 650:172.	
Political Science: 941:129; 942:142; 943:143.	
Criminology: 982:128*; 982:131**; 982:132***.	

21 hours

Prerequisites:

\*982:128 prerequisite: 980:001.

\*\*982:131 prerequisites: 980:001; 982:022.

\*\*\*982:132 prerequisites: 982:022; 982:025.

Not more than 9 semester hours of political science for this minor can count toward a teaching or non-teaching major in political science.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Political Science or the Office of the Registrar, which serves as the centralized registry.

### Certificate in International Peace and Security

The Certificate in International Peace and Security is designed to provide a specialized and in-depth knowledge of theories, concepts and evidence about issues of conflict and peace in world politics. Students will develop analytical and practical skills on matters of diplomacy and conflict resolution, coupled with a breadth of understanding about contemporary issues, about the different types and forms of international violence that exist, as well as the causes of and solutions to such conflict.

This certificate complements UNI's Center for International Peace and Security Studies (CIPSS), and is meant to foster interdisciplinary study. If your career goals are in foreign service, public or private sector conflict mediation, international business and risk assessment, homeland security or military service, this certificate program will be an invaluable benefit to your education. Any student seeking advanced study in international security, or who wishes to foster peace and understand war, is eligible and will find this intensive program rewarding.

Required:

International Relations core: 943:024; 943:120 .....	6 hours
Electives (choose minimum 9 hours from the following) .....	9 hours
Communication: 48C:151.	



International Relations: 943:127; 943:129; 943:143; 943:145.  
Comparative Politics: 944:121.  
History: 963:154; 963:157  
Geography: 970:116.  
Sociology: 980:102.

15 hours

## Certificate in State and Local Government

The Certificate in State and Local Government is designed to provide a specific set of skills to any student at UNI looking to work in state or local government. This certificate blends theoretical and practical knowledge to provide the flexibility to solve some of the problems facing these governments.

If your career goals include public finance, economic development, community development and planning, or state and local politics, a Certificate in State and Local Government will help link your education to your career.

A Certificate in State and Local Government will also help students who want to work in public agencies such as school administration, city management, public health, social services, or public safety.

Required:

American Politics: 942:014; 942:131 .....6 hours  
Electives (choose minimum 9 courses from the following).....9 hours  
Communication: 48C:160.  
Economics: 920:148\*\*\*.  
American Politics: 942:132; 942:153; 942:171\*; 942:172\*\*;  
942:173\*\*.  
Criminology: 982:153\*\*\*\*.

15 hours

Prerequisites are as follows:

\* 942:171 prerequisites: 942:014; 942:132.  
\*\*942:172 and 942:173 prerequisites: 942:014; 942:048.  
\*\*\*920:148 prerequisites: 920:053 and 920:054, or consent of instructor.  
920:053 and 920:054 are prerequisites to all 100-level economics courses.  
Either 920:024 or both 920:053 and 920:054 will satisfy Category 5B of the Liberal Arts Core.  
\*\*\*\*982:153 prerequisites: 980:001; 982:022.

## Department of Psychology

### (College of Social and Behavioral Sciences)

**www.uni.edu/psych**

K. MacLin, Interim Head. S. Brown, A. Butler, M. DeSoto, M. Gasser, A. Gilpin, H. Harton, C. Hildebrandt, R. Hitlan, B. Kopper, M. Losch, O. MacLin, J. Somerville, J. Susskind, R. Tan, L. Walsh, J. Williams, J. Yates.

The Department of Psychology offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Psychology section in the following order:

#### Undergraduate Majors (B.A.)

Psychology  
Psychology—Teaching

#### Minors

Psychology  
Psychology—Teaching

#### Graduate Major (M.A.)

Psychology

#### Program Certificate

Industrial and Organizational Psychology Certificate  
Certificate in Psychology of Employee Development

Students who want to declare psychology as a major or minor, including the teaching programs, must have completed 9 hours of psychology (400:xxx) with a minimum GPA of 2.50. Students not meeting this requirement may discuss their special situation with the department head who may waive the requirement in extraordinary circumstances. All transfer students must have permission of the department head in order to declare a major or minor.

Only courses with an earned grade of at least a C- will count toward the majors and minors.

It is possible for psychology majors to graduate with departmental honors provided they have an overall GPA of at least 3.50 and complete a research project deemed worthy of honors by the department. Generally such a project is done in the context of 3 hours of 400:193, Research Experience in Psychology.

Introduction to Psychology (400:001) is a prerequisite for all other psychology courses, and therefore must be taken by all majors and minors. It also counts as a Liberal Arts Core requirement.

## Bachelor of Arts Degree Programs

### Psychology Major

The Psychology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Psychology: 400:001; 400:101; 400:102; 400:118.....14 hours  
Select one course from each of the five content areas:.....15 hours  
Biological: 400:127; 400:152; 400:155; 400:170.  
Social/Developmental: 400:060; 400:120; 400:160;  
400:173.  
Applied: 400:025; 400:070; 400:154; 400:157; 400:158.  
Abnormal/Individual Differences: 400:106; 400:142;  
400:161; 400:166.  
Cognition and Learning: 400:050; 400:134; 400:150;  
400:151; 400:153.

Electives in psychology .....9 hours

Electives may be selected from any of the above courses

OR from those listed below:

400:125; 400:130; 400:132; 400:149; 400:162;  
400:163; 400:164; 400:167; 400:177; 400:179\*;  
400:189; 400:192\*; 400:193\*; 400:198\*.

38 hours

\*No more than six total hours of 179, 192, 193, and 198 can count toward fulfilling the major requirements.

### Psychology Major—Teaching (Extended Program)

The Psychology—Teaching major requires a minimum of 142-154 total hours to graduate (depending on the minor chosen). This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 142-154 hours. Liberal Arts

## Program Requirements

### Psychology

Core courses included in major program requirements are distinguished by *italics*.

Required:

Psychology: *400:001*; 400:101; 400:102; 400:118.....14 hours

Select one course from each of the five content areas:.....15 hours

Biological: 400:127; 400:152; 400:155; 400:170.

Social/Developmental: 400:060; 400:120; 400:160;  
400:173.

Applied: 400:025; 400:070; 400:154; 400:157; 400:158.

Abnormal/Individual Differences: 400:106; 400:142;  
400:161; 400:166.

Cognition and Learning: 400:050; 400:134; 400:150;  
400:151; 400:153.

Electives in psychology.....9 hours

Electives may be selected from any of the above courses

OR from those listed below:

400:125; 400:130; 400:132; 400:149; 400:162;

400:163; 400:164; 400:167; 400:177; 400:179\*;

400:189; 400:192\*; 400:193\*; 400:198\*.

Social Science: 900:190; 900:191..... 4 hours  
42 hours

\*No more than six total hours of 179, 192, 193, and 198 can count toward fulfilling the major requirements.

Students electing the teaching major must minor in one of the academic areas usually taught in secondary schools in order to assure student teaching placement and increase the chances of employment. Particularly recommended for a minor are the natural sciences, history, English, mathematics, and some modern languages.

## Minors

### Psychology Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Psychology: *400:001*; 400:101; 400:118.....10 hours

Electives in psychology .....15 hours  
25 hours

### Psychology Minor-Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Psychology: *400:001*; 400:101; 400:102; 400:118.....14 hours

Electives in psychology - 6 hours from the following:

400:106; 400:127; 400:149; 400:151; 400:152; 400:153;

400:155; 400:162; 400:163 .....6 hours

Additional electives in psychology (any category; see

psychology major) .....6 hours

Social Science: 900:190 (unless already taken in major);

900:191 .....4 hours  
30 hours

## Master of Arts Degree Program

### Major in Psychology

This major is available on the **thesis** option only and requires a

**minimum of 30-45 semester hours. A minimum of 15 semester hours of 200-level course work is required for the thesis option.**

GRE scores **are** required for all applicants, except those applicants applying to the Fifth Year program in Industrial-Organization.

The M.A. program in psychology consists of three emphases: 1) clinical science, for those who wish to pursue doctoral-level study in clinical or counseling psychology or to become master's level providers of psychological services operating in clinical settings under appropriate supervision; 2) industrial-organizational emphasis, for students interested in pursuing either doctoral-level studies in industrial-organizational psychology or a career in human resources; and 3) social, for students wishing to pursue doctoral study in social and related areas of psychology or careers as master's level data analysts or community college instructors.

Students may also choose an individualized study option in which they choose a program of study beyond the courses required for all students in conjunction with a faculty advisor and the graduate coordinator.

The program maintains a strong empirical, research-based orientation and seeks to: a) provide students with opportunities to develop skills in research methodology; b) gain advanced knowledge of major areas of scientific psychology; and c) obtain basic competence in skills relevant to these areas. All students are required to complete a thesis for successful completion of this program. It is expected that students in the two-year program will, except under extraordinary circumstances, have a thesis proposal approved by their advisor by the beginning of their second year of study. The program is set up so it should be completed in two full academic years and two summers. Students are strongly encouraged to finish within this time frame.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

In addition to meeting general university admission requirements, applicants are also required to submit the following for consideration: 1) a departmental application form; 2) three letters of recommendation, preferably from undergraduate psychology instructors; and 3) Graduate Record Examination (GRE) scores on the general aptitude tests (advanced psychology test scores required only for those applicants who were not undergraduate psychology majors). Students from UNI applying for the Fifth Year I/O emphasis do not need to submit GRE scores.

The application deadline for fullest consideration of financial aid is February 1. Offers of admission will begin in February and continue on a rolling basis until all positions in the program are filled or until early May. Applications completed by April 30 will be reviewed and given consideration, but early application is strongly encouraged.

The Industrial-Organizational emphasis also includes a Fifth Year Option, available to students with a bachelor's degree and I-O certificate from UNI. This program is designed to be finished in one year. Undergraduate seniors may register for up to six credit hours of graduate credit with the approval of the Graduate Coordinator and Department Head. **Students earning this type of credit are classified as seniors but will pay graduate tuition for the semester hours for which they will receive graduate credit. The maximum tuition will be the full time graduate rate for the student's residence classification.** The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a semester, or 8 hours in a summer session. Graduate work completed as an undergraduate will be counted as graduate credit only if the student earns the bachelor's degree within nine months of completing the course work. Graduate credits completed as an undergraduate only count towards the I-O emphasis master's degree at UNI, and completing those credits does not guarantee admission to the

## Program Requirements Psychology/Science and Science Education

program. Actual classification as a graduate student commences after the student completes the baccalaureate.

Required for all students:

Psychology: 400:239 .....	3 hours
Readings: 400:285 .....	2 hours
Thesis Research: 400:299 .....	6 hours
Electives in Psychology: .....	0-9 hours
(determined in consultation with the Graduate Coordinator)	
Emphasis requirements (as listed below) .....	19-31 hours
	30-45 hours

### Clinical Science Emphasis (44 hours):

Required:

Psychology: 400:225; 400:241; 400:244; 400:246; 400:249; 400:262; 400:270; 400:272 .....	20 hours
Clinical Practicum: 400:290 .....	4 hours

### Industrial-Organizational Emphasis (39 hours):

Required:

Psychology: 400:149; 400:157; 400:158; 400:210; 400:232; 400:234; 400:237; 400:264 .....	23 hours
Practicum in I/O Psychology: 400:291 .....	2 hours

### Industrial-Organizational 5th Year Emphasis (30 hours):

Required:

Psychology: 400:149; 400:210; 400:232; 400:234; 400:237; 400:264 .....	17 hours
Practicum in I/O Psychology: 400:291 .....	2 hours

### Social Psychology Emphasis (45 hours):

Required:

Psychology: 400:149; 400:162; 400:218; 400:220; 400:241; 400:261; 400:264 .....	21 hours
Psychology: 400:293 .....	6 hours
Psychology: 400:294 (1 hr. each of 4 semesters for a total of 4 hrs.) .....	4 hours

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Psychology or the Office of the Registrar, which serves as the centralized registry.

### Industrial and Organizational Psychology Certificate

This certificate provides undergraduate students with the skills and knowledge necessary to be competitive in a professional human resources or consulting environment.

Required:

Psychology: 400:025*; 400:157*; 400:158 .....	9 hours
Electives: two courses from the following .....	6 hours
Management: 150:119; 150:165^; 150:166^^	
Ethics in Business: 150:174 or 640:174 or 650:174	
Psychology: 400:106*; 400:134*; 400:160*	
Communication Studies: 48C:134~; 48C:135~~	

15 hours

Choice of courses and subsequent course prerequisites may increase the length of this program.

\*400:025, 400:106, 400:134, 400:157, and 400:160 have a prerequisite of 400:001, which may be used to satisfy Category 5B of the Liberal Arts Core.

^150:165 has prerequisites of 150:153; 800:072 or 800:094 or equivalent; and 920:070. Course 800:072 may be used to satisfy Category 1C of the Liberal Arts Core.

^^150:166 has a prerequisite of 150:153.

~48C:134 has a prerequisite of 150:153 or 48C:132.

~~48C:135 has a prerequisite of 48C:132.

## Certificate in Psychology of Employee Development

This graduate Certificate in Psychology of Employee Development would be available to graduate students across the university, but would be particularly applicable for psychology and business graduate students.

Required:

Management: 150:262 .....	3 hours
Industrial-Organizational Psychology: 400:232; 400:234; 400:237 .....	9 hours
Electives: one course from the following .....	3 hours
Management: 150:168; 150:250.	
Communication: 48C:232.	

15 hours

## Science and Science Education

[www.cns.uni.edu/Overview/Departments.html#SCIENCEED](http://www.cns.uni.edu/Overview/Departments.html#SCIENCEED)

There is no science department as such. The science majors and the general courses in science are offered under the jurisdiction and general supervision of the Dean of the College of Natural Sciences. The responsibility for programs and courses in science education is delegated to the science education faculty under its chairperson. Members of the science education faculty hold their primary appointments in the various science departments in the College of Natural Sciences.

The following undergraduate and graduate programs are offered in science and science education. Specific requirements for these programs are listed within this Science and Science Education section in the following order:

### Undergraduate Majors (B.A.)

All Science Teaching  
Middle/Junior High School Science Teaching

### Minor

Basic Science (K-8)—Teaching

### Graduate Major (M.A.)

Science Education

## Bachelor of Arts Degree Programs

### All Science Teaching (Extended Program)

The All Science Teaching major requires a minimum of 140 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 140 hours. Because of the number of courses required for this major and course sequencing, it cannot be completed in eight semesters of normal work. It will require a longer time or additional work during summers.

## Program Requirements

### Science and Science Education

Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major is intended for students who wish to teach at the secondary level in all areas of science (biology, chemistry and biochemistry, earth science, and physics). The program will lead to Iowa Department of Education endorsement in biology, chemistry, earth science, physics, physical sciences, and general science.

#### Required:

Science and Science Education: 820:190; 820:193; 820:196...8 hours  
 Biology: 840:051; 840:052; 840:100; 840:140; 840:193.....18 hours  
 Chemistry and Biochemistry: 860:044; 860:048\* .....8 hours  
 Earth Science: 870:031; 870:035.....8 hours  
 Physics: 880:054; 880:056\*\*.....8 hours

#### Electives from the following:

Chemistry and Biochemistry: 860:063 or 860:120  
 plus one 100-level course.....7 hours  
 Earth Science: 870:010\*\*\*; 870:021; 870:022.....8 hours  
 Physics (any 100-level) .....7 hours  
 72 hours

For completion of this major the grade point average in each of the four science disciplines must be a minimum of 2.00, with a 2.50 GPA in the major as a whole.

Elective courses must be ones that count toward the major in the discipline or be approved for this use by the department offering the course.

\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 hours of additional credit hours in chemistry electives for 860:044 and 860:048.

\*\*Students with excellent preparation in physics and calculus may substitute 880:130 and 880:131 for 880:054 and 880:056.

\*\*\*870:010 must be taken for four semester hours of credit.

#### Notes:

1. Students with sufficient high school preparation may be allowed to omit some introductory courses and substitute other courses from the same department.
2. The mathematics prerequisite for one or more of the above courses is a working knowledge of algebra and trigonometry or 800:046.

## Middle/Junior High School Science Teaching

The Middle/Junior High School Science Teaching major requires a minimum of 127 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 127 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major is intended for students who wish to teach science at the junior high or middle school level. As a stand-alone major, it fulfills 5-12 General Science and Physical Science endorsements.

#### Required:

Educational Psychology: 200:152 .....3 hours  
 Elementary, Early Childhood, and Middle Level Education:  
 210:122 .....3 hours  
 Science and Science Education: 820:190; 820:196; two  
 of the following three courses — 210:150; 820:193;  
 840:193 .....11 hours  
 Biology: 840:051; 840:052.....8 hours  
 Chemistry and Biochemistry: 860:044; 860:048\* .....8 hours  
 Earth Science: 870:010\*\*; 870:021; 870:022; 870:031.....12 hours

Physics: 880:054; 880:056 .....8 hours  
 Electives in science: from biology, chemistry and biochemistry,  
 physics and earth science at the 100-level or above .....6 hours  
 59 hours

For completion of this major the grade point average in each of the four science disciplines must be a minimum of 2.00, with a 2.50 GPA in the major as a whole.

\*Students with excellent preparation in chemistry may substitute 860:070 plus 3 hours of additional credit hours in chemistry electives for 860:044 and 860:048.

\*\*870:010 must be taken for four semester hours of credit.

#### Notes:

1. Students with sufficient high school preparation may be allowed to omit some introductory courses and substitute other courses from the same department.
2. The mathematics prerequisite for one or more of the above courses is a working knowledge of algebra and trigonometry or 800:046.

## Minor

### Basic Science Minor (K-8)–Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

For those pursuing K-6 general classroom teacher licensure with an endorsement in Basic Science (K-8).

#### Required:

Science and Science Education: 820:031; 820:032; 820:033;  
 820:130; 820:181 .....18 hours  
 Biology: 840:181 .....4 hours  
 Earth Science: 870:181.....4 hours

#### Electives:

Chemistry and Biochemistry, or Physics (select one):  
 860:010 (4 hrs.); 860:061; 880:011 .....4 hours  
 30 hours

## Master of Arts Degree Program

### Major in Science Education

This major requires as a prerequisite a bachelor's degree (teaching preferred) with a major or minor/emphasis in Science or in a specific science discipline. Teacher licensure is a prerequisite for completing the program approval process for this major.

This major is available on the **thesis** and **non-thesis** options. A **minimum of 30 semester hours**, including 6 hours of 820:299 for thesis research and writing, is required for the **thesis** option; a **minimum of 32 semester hours**, including completion and in some cases public presentation of a creative component, is required for the **non-thesis** option. Successful completion of a final written comprehensive examination is required for the **non-thesis** option. **A minimum of 17 hours of 200-level course work is required for the thesis option. A minimum of 14 hours of 200-level course work is required for the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

## Program Requirements Science and Science Education/Social Science

### Required:

Measurement and Research: 250:205 .....	3 hours
Science and Science Education: 820:200; 820:213; 820:290; 820:294 .....	8 hours
Thesis or non-thesis option .....	19 or 21 hours 30 or 32 hours

### Thesis Option

Research: 820:299 .....	6 hours
Courses from the College of Natural Sciences.....	8 hours
Electives from education or science and science education..	5 hours
	19 hours

### Non-Thesis Option

Research: 820:299 .....	3 hours
Courses from the College of Natural Sciences.....	11 hours
Electives from education or science and science education..	7 hours
	21 hours

### Earth Science Education Emphasis

The Earth Science emphasis differs from the Science Education major in that it provides the options of taking either 250:205 or 870:292 and either 820:299 or 870:299. The Earth Science Education emphasis also requires 8 hours of graduate credit in Earth Science and a total of 36 hours in Earth Science in combined graduate and undergraduate programs.

### Required:

Measurement and Research: 250:205 or Research Methods in Earth Science: 870:292.....	3 hours
Science and Science Education: 820:200; 820:213; 820:290; 820:294.....	8 hours
Thesis or non-thesis option .....	19 or 21 hours 30 or 32 hours

### Thesis Option

Research: 820:299 or 870:299.....	6 hours
Earth Science.....	8 hours
Electives from education or science and science education..	5 hours
	19 hours

### Non-Thesis Option

Research: 820:299 or 870:299.....	3 hours
Courses from the College of Natural Sciences, with at least 8 hours of Earth Science .....	11 hours
Electives from education or science and science education..	7 hours
	21 hours

### Physics Education Emphasis

The Physics Education emphasis differs from the Science Education major in that it provides the option of taking either 820:299 or 880:299. The Physics Education emphasis also requires 8 hours of graduate credit in physics and a total of 36 hours in physics in combined graduate and undergraduate programs.

### Required:

Measurement and Research: 250:205 .....	3 hours
Science and Science Education: 820:200; 820:213; 820:290; 820:294.....	8 hours
Thesis or non-thesis option .....	19 or 21 hours 30 or 32 hours

### Thesis Option

Research: 820:299 or 880:299.....	6 hours
Physics .....	8 hours
Electives from education or science and science education..	5 hours
	19 hours

### Non-Thesis Option

Research: 820:299 or 880:299.....	3 hours
Courses from the College of Natural Sciences, with at least 8 hours of Physics .....	11 hours
Electives from education or science and science education...	7 hours
	21 hours

Inquiries for additional information concerning this major, including assignment of an advisor and advisory committee, should be made to the chair of the Science Education faculty or the Dean of the College of Natural Sciences.

## Social Science

### [www.uni.edu/csbs](http://www.uni.edu/csbs)

There is no social science department as such. The programs and the general courses in social science are offered under the jurisdiction of the Social Science Education Committee and the general supervision of the Dean of the College of Social and Behavioral Sciences. Inquiries should be directed to the Undergraduate Coordinator, Social Science Program, College of Social and Behavioral Sciences.

The following undergraduate programs are offered in social science. Specific requirements for these programs are listed within this Social Science section in the following order:

#### Undergraduate Majors (B.A.)

- Social Science–Teaching–Plan A - Specialist
- Social Science–Teaching–Plan B - All Social Science

#### Graduate Major (M.A.)

- Social Science

## Bachelor of Arts Degree Programs

### Social Science Major–Teaching - Plan A - Specialist (*Extended Program*)

The Social Science Teaching major Plan A-Specialist requires a minimum of 135 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 135 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major is intended for students who wish to teach three of the following social sciences: American Government, American History, Anthropology, Economics, Geography, Psychology, Sociology, and World History. Because of the number of courses required for this major, it cannot be completed in eight semesters of normal work. It will require a longer time or additional work during summers.

### Required:

Social Science: 900:190; 900:191 .....	4 hours
Three areas of study in the social sciences are required. Two of these areas require a minimum of 21 hours, and one requires a minimum of 18 hours. Only <i>one</i> field of history (American or World) may be selected as one of the <i>three</i> areas of the major .....	60 hours 64 hours

Upon completing 100 credit hours of college course work the student must have permission from the Undergraduate Coordinator, Social Science Program, to continue the Social Science-Teaching major based on minimum GPA requirements for full admission to the Teacher Education Program. Students unable to meet minimum grade point requirements for full admission to the Teacher Education Program and

## Program Requirements

### Social Science

student teaching must seek an alternative degree.

#### American Government

Political Science: 942:014; plus 12 (or 15) hours in American Government and 3 hours in Comparative Government or International Relations.

Eligible American Government courses: 940:176; 941:129; 942:048; 942:112; 942:131; 942:132; 942:134; 942:141; 942:142; 942:146; 942:147; 942:150; 942:151; 942:153; 942:155; 942:166; 942:171; 942:172; 942:173; 942:174; 943:127.

Eligible electives in Comparative Government or International Relations: 943:024; 943:125; 943:143; 943:145; 944:135; 944:164; 944:165; 944:167.

COURSES THAT MAY BE USED TO MEET REQUIREMENTS IN EITHER OF THE ABOVE CATEGORIES, BUT NOT BOTH: 942:155; 943:127.

#### American History

History: 961:014; 961:015; plus 12 (or 15) hours in American history from the following courses:

960:189; 961:102; 961:116; 961:122; 961:124; 961:130; 961:131; 961:134; 961:135; 961:136; 961:137; 961:139; 961:140; 961:141; 961:142; 961:143; 961:144; 961:145; 961:146; 961:147; 961:150.

#### Anthropology

Anthropology: 990:010; 990:011; plus 12 (or 15) hours in anthropology.

#### Economics

Economics: 920:053\*; 920:054\*; 920:103; 920:104; plus 6 (or 9) hours in economics *except* 920:020; 920:024; 920:070.

**\*Both** 920:053 **and** 920:054 will substitute for 920:024 which will satisfy Category 5B of the Liberal Arts Core.

#### Geography

Geography: 970:026; 970:040; 970:141 or 970:142; plus 9 (or 12) hours in geography from the following courses:

970:010; 970:028; 970:061; 970:100; 970:101; 970:104; 970:111; 970:114; 970:116; 970:117; 970:119; 970:127; 970:137; 970:141 (for different region than above); 970:144; 970:151; 970:164; 970:171.

#### Psychology

Psychology: 400:001; 400:118; plus 12 (or 15) hours in psychology.

#### Sociology

Sociology: 980:001; plus 15 (or 18) hours of sociology from the following courses:

980:060; 980:080; 980:105; 980:108; 980:125; 980:135; 980:138; 980:148; 980:156; 980:160; 980:167; 980:168; 980:170; 980:171; 980:172; 980:176; 980:177.

Criminology: 982:123; 982:127; 982:162; 982:169.

#### World History

History: one course from Category A (962:101, 962:103, 962:123, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171, and one course from Category B (962:126, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 964:178). Plus 12 (or 15) hours in European, Asian, Latin American and/or African history from the following courses: 960:189; 960:192; 962:101; 962:103; 962:123; 962:126; 962:151; 962:152; 962:153; 962:158; 962:164; 962:171; 963:154; 963:155; 963:156; 963:157; 963:160; 963:161; 963:165; 963:169; 963:170; 963:172; 963:174; 964:175; 964:176; 964:180; 964:181; 964:182; 964:183; 964:187.

## Social Science Major–Teaching - Plan B - All Social Science (*Extended Program*)

The Social Science Teaching major Plan B-All Social Science requires a minimum of 126-129 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 126-129 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

This major is intended for students who wish to teach in the State of Iowa in all areas of social science: American Government, American History, Economics, Geography, Psychology, Sociology, and World History. Area of study will count for one endorsement area. Because of the number of courses required for this major, it cannot be completed in eight semesters of normal work. It will require a longer time or additional work during summers.

Required:

Social Science: 900:190; 900:191 .....4 hours

One area of study in the social sciences is required. That

one area requires a minimum of 15 hours. The rest of the major would complete the Iowa All-Social Studies Endorsement which is as follows: American Government (9 hours), American History (9 hours), World History (9 hours), Economics (6 hours), Geography (6 hours) Psychology (6 hours), Sociology (6 hours).....

57-60 hours

61-64 hours

Upon completing 100 credit hours of college course work the student must have permission from the Undergraduate Coordinator, Social Science Program, to continue the Social Science-Teaching major based on minimum GPA requirements for full admission to the Teacher Education Program. Students unable to meet minimum grade point requirements for full admission to the Teacher Education Program and student teaching must seek an alternative degree.

#### American Government

Political Science: 942:014; plus 6 (or 12) hours in American Government.

Eligible American Government courses: 940:176; 941:129; 942:048; 942:112; 942:131; 942:132; 942:134; 942:141; 942:142; 942:146; 942:147; 942:150; 942:151; 942:153; 942:155; 942:166; 942:171; 942:172; 942:173; 942:174; 942:188.

#### American History

History: 961:014; 961:015; plus 3 (or 9) hours in American history from the following courses:

960:189; 961:102; 961:116; 961:122; 961:124; 961:130; 961:131; 961:134; 961:135; 961:136; 961:137; 961:139; 961:140; 961:141; 961:142; 961:143; 961:144; 961:145; 961:146; 961:147; 961:150.

#### Economics

Economics: 920:053\*; 920:054\*; plus 0 (or 9) hours in economics *except* 920:020; 920:024; 920:070.

**\*Both** 920:053 **and** 920:054 will substitute for 920:024 which will satisfy Category 5B of the Liberal Arts Core.

#### Geography

Geography: 970:010 or 970:040; 970:061 or 970:141 or 970:142 or 970:171; plus 0 (or 9) hours within the Geography Department.

## Psychology

Psychology: 400:001; 400:118; plus 0 (or 9) hours in psychology.

## Sociology

Sociology/Criminology: 980:001; 980:100 or 980:105 or 980:123 or 980:135 or 980:156; plus 0 (or 9) hours of sociology/criminology from the following courses:  
980:060; 980:080; 980:105; 980:108; 980:125; 980:135; 980:138; 980:148; 980:160; 980:167; 980:168; 980:170; 980:171; 980:172; 980:176; 980:177; 982:123; 982:127; 982:162; 982:169.

## World History

History: one course from Category A (962:101, 962:103, 962:123, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one course from Category B (962:126, 963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 964:178). Plus 3 (or 9) hours in European, Asian, Latin American and/or African history from the following courses: 960:189; 960:192; 962:101; 962:103; 962:123; 962:126; 962:151; 962:152; 962:153; 962:158; 962:164; 962:171; 963:154; 963:155; 963:156; 963:157; 963:160; 963:161; 963:165; 963:169; 963:170; 963:172; 963:174; 964:175; 964:176; 964:180; 964:181; 964:182; 964:183; 964:187.

# Master of Arts Degree Program

## Major in Social Science

The M.A. program in social science is designed for individuals who have current teacher licensure and wish to enhance their content and curriculum knowledge in social sciences.

This major is available on the **non-thesis** option only and requires a **minimum of 30 semester hours** which includes a 3-hour teaching seminar and a 3-hour research paper and project conducted in the final semester. **A minimum of 12 semester hours of 200-level course work is required for the non-thesis option.** Students will also take graduate level classes from the following content areas: American Government, American History, Economics, Geography, Psychology, Sociology, and World History. Students should not exceed 6 hours from any one content area.

The GRE examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx). Additional information can be obtained from the Graduate Coordinator of Social Science, College of Social and Behavioral Sciences, or the Dean of the Graduate College.

### Required:

Social Science Seminar: 900:289 .....	3 hours
Research: 900:299 .....	3 hours
Electives (may not exceed 6 hours from any one content area) .....	24 hours
	<b>30 hours</b>

# Department of Social Work

## (College of Social and Behavioral Sciences)

### [www.uni.edu/socialwork](http://www.uni.edu/socialwork)

*T. Keefe, Head. F. Besthorn, M. Boes, W. Burt, W. Downs, J. Hanson, C. Singleton Henkin, C. Juby, L. Kaplan, J. McCullagh, L. Praglin, R. Schneider, K. van Wormer.*

The Department of Social Work offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Social Work section in the following order:

#### **Undergraduate Major (B.A.)**

Social Work

#### **Graduate Major (M.S.W.)**

Social Work

#### **Program Certificates**

Social Work Certificate

Substance Abuse Counseling Certificate

The Social Work Department at the University of Northern Iowa is accredited by the Council on Social Work Education. The undergraduate social work major prepares students for beginning level professional social work practice.

The mission of the Department of Social Work, in keeping with the broader mission of the University and the purposes of professional social work education, is to prepare students for competent, effective, and ethical-beginning and advanced-professional practice and leadership; to conduct scholarship that advances knowledge; and to provide service to local, state, national, and international communities. Using multidimensional theory, knowledge and skills, students and faculty are committed to enhancing human potential and growth in diverse human systems. This commitment is supported by the promotion of multicultural sensitivity, human rights, and social and economic justice within a framework of social work values and ethics.

# Bachelor of Arts Degree Program

## Social Work Major

The Social Work major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

### Required:

Design, Textiles, Gerontology, & Family Studies: 31F:055 or Psychology: 400:120 .....	3 hours
Social Work: 450:041; 450:042; 450:091; 450:144; 450:163; 450:164; 450:184*; 450:185; 450:192; 450:193 or 450:195; 450:196 .....	41 hours
At least two of the following courses: 450:121; 450:142; 450:143; 450:171; 450:172; 450:173; 450:175; 450:193**; 450:194***; 450:195** .....	6 hours
Social Work: 450:080	
OR	
Sociology: 980:080**** .....	3 hours

53 hours

\*450:184 can also be taken for 4 additional credit hours on an elective

## Program Requirements

### Social Work

basis.

\*\*Course may be taken for elective credit if not taken to fulfill core course requirements.

\*\*\*Course may be repeated once with a different topic.

\*\*\*\*400:102 or 800:072 may be substituted.

A minimum cumulative grade point average for all college work of 2.40 and a 2.40 grade point average for all UNI courses taken is required for admission to the Social Work major. A minimum UNI grade point average of 2.40 is required for graduation as a Social Work major.

Prior to the initiation of the second Social Work Practice course, social work majors are required to complete a departmentally-approved, 30-contact-hour volunteer experience in a social service agency.

In order to enroll in 450:184, a student must be a Social Work major and the following must be present: senior standing (90 or more credit hours); completion of 450:091 and 450:192 with a minimum grade of C in each course; 450:042; 450:164; 450:185; statistics course; and a minimum UNI grade point average of 2.40.

Students who graduate with a major in Social Work receive a Bachelor of Arts degree with a Social Work Certificate.

## Master of Social Work Degree

### Major in Social Work

The Master of Social Work program is accredited by the Council on Social Work Education.

The Master's Degree in Social Work (M.S.W.) is available only on the **non-thesis** option. The M.S.W. program is designed to prepare students for the advanced practice of social work in a variety of public and nonprofit settings. There are two avenues to the M.S.W. degree: the **Two Year program**, open to persons with baccalaureate degrees from an accredited college or university in other fields, and the **Advanced Standing program**, which is available only for qualified students who have graduated from a Council on Social Work Education (C.S.W.E.) accredited baccalaureate social work program. The Advanced Standing Program has a very limited Extended Enrollment Option.

All M.S.W. students will complete a concentration in either **Advanced Micro Practice** or **Social Administration Practice**. The Micro Practice concentration is designed to prepare students for advanced social work practice with individuals, families, and groups. The Social Administration concentration is designed to prepare students for advanced administrative practice including: leadership, program planning and development; organizational development and change; and how to seek effective funding of programs. The concentration course credit can only be completed at the University of Northern Iowa.

The **Two Year program** requires a **minimum of 60 semester hours**, which consists of a generalist foundation core of 29 semester hours and completion of one of the two concentrations. The program is offered in cohort groups and consists of two full consecutive academic years with field practicum concurrent with fall and spring academic course work or with second year field practicum during the summer following completion of all other course work. Students are strongly encouraged to finish within this time frame. **A minimum of 39 hours of 200-level course work is required for the non-thesis option.**

The **Advanced Standing program** requires a **minimum of 38 semester hours**. The program consists of a summer core of 7 hours, preceding one full academic year of concentration courses with field practicum concurrent with fall and spring academic course work or with field practicum during the summer following completion of all other course work. Students are strongly encouraged to finish within this time frame. **A minimum of 32 hours of 200-level course work is required for the non-thesis option.** The Extended Enrollment Option is available on a

competitive, limited basis for applicants meeting the following:

1. Qualify for advanced standing;
2. Work full time in social services;
3. Can attend classes at times offered (three-hour blocks);
4. Can complete all requirements within a preferred three years but no more than four years.

Students interested in this program must submit a completed Application for Admission to Graduate Study. General graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

The Graduate Record Examination (General Test) **is not** required for admission to the program; however, applicants may wish to submit GRE scores in support of their application.

Admission to the M.S.W. is competitive. Applicants must comply with all of the policies and procedures pertaining to admission to graduate study as set forth in the catalog (pages 66-69). *In addition*, applicants are required to submit the following in order to be considered for admission.

1. The Department of Social Work M.S.W. application.
2. Three letters of reference, using the official M.S.W. departmental reference forms.
3. A personal autobiographical statement.
4. Official transcripts for **all post-secondary institutions** attended (with the exception of the University of Northern Iowa), sent directly from the college or university attended to the Office of the Registrar at the University of Northern Iowa.

#### Required for Two Year Program:

Social Work foundation core: (for all two year students)  
450:210; 450:211; 450:212; 450:213; 450:214;  
450:215; 450:216; 450:218; 450:219.....29 hours  
Concentration: (select one of the following).....31 hours  
60 hours

#### Required for Advanced Standing Program and Extended Enrollment Option:

Social Work: (summer courses)  
450:230; 450:239.....7 hours  
Concentration: (select one of the following).....31 hours  
38 hours

#### Micro Practice Concentration:

Social Work: 450:240; 450:241; 450:242; 450:243; 450:244;  
450:250; 450:255.....25 hours  
Electives to be selected in consultation with  
program advisor.....6 hours  
31 hours

#### Social Administration Concentration:

Social Work: 450:250; 450:255; 450:260; 450:261; 450:262;  
450:263; 450:264.....25 hours  
Electives to be selected in consultation with  
program advisor.....6 hours  
31 hours

For information concerning admission or required courses for the M.S.W., contact the Department of Social Work, M.S.W. Program, Sabin 30, Cedar Falls, IA 50614-0405, or phone 319-273-5910, or visit [www.uni.edu/socialwork/msw](http://www.uni.edu/socialwork/msw)



## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Social Work or the Office of the Registrar, which serves as the centralized registry.

### Social Work Certificate

Students who graduate with a major in Social Work from UNI receive a Bachelor of Arts degree with a Social Work Certificate. For information on this major see Social Work Major within this Department of Social Work section.

### Substance Abuse Counseling Certificate

This UNI certificate program is designed to prepare Social Work majors for the field of substance abuse treatment. To receive a UNI certificate, a student must complete the requirements for the Social Work major (including graduation with the B.A.) and the specific course work and field instruction experiences as indicated.

Required:

Social Work: 450:171 .....	3 hours
Electives: three of the following .....	9 hours
Psychology: 400:170.	
Social Work: 450:121; 450:142; 450:143; 450:175.	

12 hours

Field Instruction: Students will spend a total of 440 hours in an inpatient or outpatient treatment program. To secure a field placement site the student may need to travel out of town. Experience with individuals, families, and groups will be required.

## Department of Sociology, Anthropology, and Criminology

### (College of Social and Behavioral Sciences)

**www.uni.edu/sac**

*K. Sandstrom, Head. P. Baker, C. Bartollas, S. Briggs, R. Chananine-Hill, K. Crew, C. Dunn, X. Escandell, R. Featherstone, C. Froyum, D. Gaff, R. Gorton, M. Grey, J. Li, J. Lowell, G. Lutz, K. Mack, T. O'Brien, G. Rhineberger, M. Stalp, A. Woodrick.*

The Department of Sociology, Anthropology, and Criminology offers the following undergraduate and graduate programs and program certificates. Specific requirements for these programs are listed within this Department of Sociology, Anthropology, and Criminology section in the following order:

#### Undergraduate Majors (B.A.)

Anthropology  
Anthropology–Teaching  
Criminology  
Sociology

#### Minors

Anthropology  
Anthropology–Teaching  
Criminology

#### Sociology Graduate Majors (M.A.)

Criminology  
Sociology

#### Program Certificates

Certificate in Criminology  
Certificate in Social Identities, Inequalities, and Intersectionalities  
Skills in Social Research Certificate

## Bachelor of Arts Degree Programs

### Anthropology Major

The Anthropology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Sociology and Anthropology: 980:080 or 800:072; 990:010;  
990:011; 990:141 or 990:142 or 990:143; 990:151 or  
990:152; 990:161 or 990:164 or 990:168; 990:176;  
990:177 .....

24 hours

Electives in anthropology .....

9 hours

Electives in sociology .....

3 hours

36 hours

### Anthropology Major–Teaching (Extended Program)

The Anthropology Teaching major requires a minimum of 132-138 total hours to graduate (depending on the minor chosen). This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 132-138 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Social Science: 900:190; 900:191 .....

4 hours

Sociology: 980:080 .....

3 hours

Anthropology: 990:010; 990:011 .....

6 hours

Electives in anthropology .....

24 hours

37 hours

A teaching minor is required, and it is strongly recommended that the minor be in another social science discipline.

Not more than 9 semester hours of credit from 990:145, 990:184, 990:189, and 990:198 may be applied toward this major.

### Criminology Major

The Criminology major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

## Program Requirements

### Sociology, Anthropology, and Criminology

Criminology: 982:110; 982:112; 982:122;  
982:127; 982:137; 982:151; 982:152.

#### Group 2 - Crime and Social Control

Six hours from the following.....6 hours

Criminology: 982:116; 982:117; 982:124;  
982:126; 982:128; 982:132; 982:153; 982:162.

#### Group 3 - Special Topics

Six hours from the following.....6 hours

Political Science: 942:144.  
Criminology: 982:111; 982:113; 982:119; 982:123;  
982:131; 982:169; 982:181.

#### Group 4 - Research and Applied Studies

Three hours from the following or three hours from  
Groups 1, 2, or 3.....3 hours  
Criminology: 982:179; 982:185; 982:198.

39 hours

\*400:102 is a 4-hour course. 400:102 has the following prerequisites:  
400:001; 400:101; one college-level mathematics course or consent of  
instructor.

**Note:** Students majoring in criminology should take 982:022 and  
982:025 before taking any 100-level courses within the major.

**Graduation note:** In order to graduate with a major in criminology,  
students must achieve a total major GPA of at least 2.33.

## Sociology Major

The Sociology major requires a minimum of 120 total hours to  
graduate. This total includes Liberal Arts Core requirements (pages  
55-57) and the following specified major requirements, plus electives to  
complete the minimum of 120 hours. Liberal Arts Core courses included  
in major program requirements are distinguished by *italics*.

#### Required:

Sociology: 980:001; 980:108; 980:170 .....9 hours  
One of the following .....3 hours  
980:080 or 800:072 or 400:102\*.

Core electives - take ONE course in THREE of the four  
core areas below .....9 hours

- 1) Inequality and Intersectionality  
Sociology: 980:120; 980:129; 980:135; 980:156;  
980:171; 980:176.
- 2) Race/Ethnicity and Immigration  
Sociology: 980:100; 980:118; 980:120; 980:138;  
980:156; 980:167.
- 3) Gender, Culture, and Identity  
Sociology: 980:100; 980:129; 980:138; 980:167;  
980:168; 980:177.
- 4) Family and the Life Course  
Sociology: 980:105; 980:118; 980:125; 980:172.

General electives as follows .....12 hours

Sociology (6-9 hours from the following):  
980:060; 980:100; 980:102; 980:105; 980:118; 980:120;  
980:125; 980:129; 980:135; 980:138; 980:145; 980:156;  
980:160; 980:167; 980:168; 980:171; 980:172; 980:176;  
980:177; 980:180; 980:184; 980:189; 980:198.

Criminology (0-1 course with a 982 prefix - 0-3 hours)

Anthropology (1 course with a 990 prefix - 3 hours)

33 hours

\*400:102 is a 4-hour course. 400:102 has the following prerequisites:  
400:001; 400:101; one college-level mathematics course or consent of  
instructor.

#### Notes:

Students are advised to take Introduction to Sociology and Research

Methods before taking any other sociology courses.

Not more than 9 semester hours of credit from 980:145, 980:184,  
980:189, and 980:198 may be applied toward the major, except with the  
approval of your advisor and department head.

A course cannot be used to satisfy more than one core elective  
category.

A course cannot be used to fulfill both a core elective category and a  
general elective in this major.

## Minors

### Anthropology Minor

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

#### Required:

Anthropology: 990:010; 990:011; 990:176; 990:177 .....12 hours  
Electives in anthropology ..... 6 hours  
18 hours

### Anthropology Minor-Teaching

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

#### Required:

Social Science: 900:190 (unless already taken in major);  
900:191 .....4 hours  
Anthropology: 990:010; 990:011 .....6 hours  
Electives in anthropology ..... 18 hours  
28 hours

### Criminology Minor

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

#### Required:

Sociology: 980:001 .....3 hours  
Criminology: 982:022; 982:025.....6 hours  
Electives: (9 hours from the following) .....9 hours  
Criminology: 982:110; 982:112; 982:113; 982:116;  
982:117; 982:119; 982:122; 982:123; 982:124;  
982:126; 982:127; 982:128; 982:131; 982:132;  
982:137; 982:151; 982:152; 982:153; 982:162/990:162;  
982:169; 982:181.  
18 hours

### Sociology Minor

Liberal Arts Core courses included in minor program requirements  
are distinguished by *italics*.

#### Required:

Sociology: 980:001; 980:108 .....6 hours  
Electives in sociology (980 prefix) ..... 15 hours  
21 hours

#### Notes:

Students are advised to take Introduction to Sociology and Research  
Methods before taking any other sociology courses.

Not more than 9 semester hours of credit from 980:145, 980:184,  
980:189, and 980:198 may be applied toward the minor, except with the  
approval of your advisor and department head.

## Master of Arts Degree Programs

### Major in Criminology

The major in Criminology is available on the **thesis** option only. A **minimum of 30 semester hours**, including 6 hours of 982:299 research, is required. **A minimum of 15 hours of 200-level course work is required.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Sociology, Anthropology, and Criminology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Sociology Research Methodology: 980:201; 980:260; 980:278 .....	9 hours
Criminology: 982:250; 982:251; 982:253 .....	9 hours
Thesis Research: 982:299 .....	6 hours
Electives (must be approved by advisor and Graduate Coordinator) .....	6 hours
	30 hours

Students entering this program should have taken the following courses or their equivalents:

Sociology/Criminology: 980:001; 980:080; 982:025.

### Major in Sociology

The major in Sociology is available on the **thesis** option only. A **minimum of 31 semester hours**, including 6 hours of 980:299 research, is required. **A minimum of 15 hours of 200-level course work is required, including no more than 3 hours of 980:285.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Sociology, Anthropology, and Criminology for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required:

Sociology: 980:200; 980:201; 980:211; 980:260; 980:278; 980:280 .....	16 hours
Thesis Research: 980:299 .....	6 hours
Electives .....	9-15 hours
Up to six hours may be taken outside of sociology with approval of Graduate Coordinator.	
	31-37 hours

A reading knowledge of a foreign language is recommended.

Students entering graduate study in this department should have taken the following courses or should be able to demonstrate competency in them:

Sociology: 980:001; 980:080; 980:108; 980:170.

## Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on

the following program certificates, contact the Department of Sociology, Anthropology, and Criminology or the Office of the Registrar, which serves as the centralized registry.

### Certificate in Criminology

Required:

Sociology: 980:001 .....	3 hours
Criminology: 982:022; 982:025 .....	6 hours
Electives (choose three courses from the following) .....	9 hours
Criminology: 982:112; 982:119; 982:122; 982:123; 982:126; 982:127; 982:186g (Studies in Terrorism - offered by correspondence only)	
	18 hours

### Certificate in Social Identities, Inequalities, and Intersectionalities

Required:

Sociology*: 980:001; 980:108 .....	6 hours
Choose three courses (9 hours) in only <b>one</b> of the four specialty areas listed below .....	9 hours
1) Inequality and Intersectionality - Sociology: 980:120; 980:129; 980:135; 980:156; 980:171; 980:176.	
2) Race/Ethnicity and Immigration - Sociology: 980:100; 980:118; 980:120; 980:138; 980:156; 980:167/400:167/990:167.	
3) Gender, Culture, and Identity - Sociology: 980:100; 980:129; 980:138; 980:167/400:167/990:167; 980:168/990:168; 980:177.	
4) Family and the Life Course - Sociology: 980:105; 980:118; 980:125; 980:172.	
	15 hours

\*Students are advised to take Introduction to Sociology (980:001) and Research Methods (980:108) before taking any of the courses listed below.

### Skills in Social Research Certificate

Required:

Sociology: 980:080; 980:108; 980:160; 980:178/990:178 .....	12 hours
Anthropology: 990:152; 990:171 .....	6 hours
Three hours from the following .....	3 hours
Sociology/Anthropology: 980:145/990:145; 980:184/990:184; 990:172.	
	21 hours

## Special Education

### (College of Education)

[www.uni.edu/coe/specialed](http://www.uni.edu/coe/specialed)

F. Kohler, Interim Head. S. Alper, S. Etscheidt, D. Gallagher, C. Kliever, A. Petersen, D. Raschke, P. Sitlington, A. Staples.

The Department of Special Education offers the following minors and graduate programs. Specific requirements for these programs are listed within this Department of Special Education section in the following order:

#### Minors

- Early Childhood Special Education–Teaching
- Severe Disability–Teaching
- Special Education–Teaching

## Program Requirements

### Special Education

Instructional Strategist I: Mild/Moderate K-8 Emphasis  
 Instructional Strategist I: Mild/Moderate 5-12 Emphasis  
 Teacher of Students With Visual Impairments (TVIS)

#### Graduate Majors (M.A.E.)

Special Education  
 Teacher of Students With Visual Impairments

#### Graduate Major (Ed.D.)

Doctor of Education: Special Education intensive study area

Special Education: 220:143 (corequisite 220:192);  
 220:147; 220:151.....12 hours  
 27 hours

## Undergraduate Programs

### Minors

#### Early Childhood Special Education Minor–Teaching

Required:

Special Education: 220:140; 220:141; 220:153 .....9 hours  
 Special Education: 220:192 (3 hrs., Practicum with  
 Children with Disabilities in Least Restrictive  
 Environment); 220:192 (1 hr., Practicum in  
 Home Intervention)..... 4 hours  
 13 hours

#### Severe Disability Minor–Teaching

This minor will lead to certification for teaching students with moderate, severe and profound disabilities from chronological ages 5-21 (Instructional Strategist II). Students must complete the requirements for an Early Childhood, Elementary or Secondary Education major and complete student teaching in both the major and the special education minor endorsement area.

Required:

Special Education: 220:142 or 220:143; 220:153; 220:167;  
 220:183; 220:184; 220:187; 220:192.....23 hours  
 Communicative Disorders: 51C:160 ..... 2 hours  
 25 hours

#### Special Education Minor–Teaching

This minor will lead to certification in teaching students with mild to moderate disabilities (Instructional Strategist I). Students must complete all requirements for an Early Childhood, Elementary, or Secondary Education major and complete student teaching in both the major and the special education minor endorsement area.

#### Instructional Strategist I: Mild/Moderate K-8 Emphasis

Required:

Special Education core: 220:170; 220:174; 220:184;  
 220:192 .....12 hours  
 Minor requirements:  
 Educational Psychology: 200:176 .....3 hours  
 Special Education: 220:142 (corequisite 220:192);  
 220:146.....9 hours  
 24 hours

#### Instructional Strategist I: Mild/Moderate 5-12 Emphasis

Required:

Special Education core: 220:170; 220:174; 220:184;  
 220:192 .....12 hours  
 Minor requirements:  
 Educational Psychology: 200:176 .....3 hours

#### Teacher of Students With Visual Impairments (TVIS) Minor

This minor will lead to endorsement for teaching students with visual impairments, from birth to 21. Students must complete the requirements for an Early Childhood, Elementary, or Secondary Education major and complete student teaching in both the major and the special education minor endorsement area.

Required:

Special Education core: 220:124; 220:126; 220:127;  
 220:130; 220:132; 220:134; 220:136; 220:138 .....22 hours  
 22 hours

## Master of Arts in Education Degree Programs

### Major in Special Education

This major is designed to prepare special education professionals for leadership positions and for advanced professional studies. To be eligible for the Special Education Consultant endorsement the student must have four years of successful teaching experience, two of which must be congruent with the desired Special Education Consultant endorsement. Students desiring to be endorsed as Work Experience Coordinators must hold a Special Education Teaching 5-12 endorsement.

This major is available on the **thesis** and **non-thesis** options, and requires a **minimum of 30 semester hours. A minimum of 18 hours of 200-level course work is required for both thesis and non-thesis options.**

Students on the thesis option must complete 6 hours of 220:299 Research and present a defense of the thesis. Students on the **non-thesis** option must submit an acceptable graduate research paper and successfully complete a final written comprehensive examination.

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Special Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required professional core:

Educational Psychology: 200:214 or  
 Social Foundations: 260:234 .....3 hours  
 Measurement and Research: 250:205 .....3 hours

Required special education core:

Special Education: 220:289 .....3 hours  
 Emphasis in special education (choose one from below) .....21 hours  
 30 hours

#### Field Specialization Emphasis

Required:

Special Education: 220:256 or 220:260; 220:293; 220:295.....9 hours  
 Approved electives (6 hrs. of 220:299 Research required on  
 thesis option) .....12 hours  
 21 hours

### Special Education Consultant Emphasis

Required:

Elementary, Early Childhood, and Middle Level Education: 210:221 or 210:270 .....	3 hours
Special Education: 220:240; 220:245; 220:290 .....	11-12 hours
Approved electives (6 hrs. of 220:299 Research required on thesis option) .....	5-6 hours 21 hours

### Career/Vocational Programming and Transition Emphasis

Required:

Special Education: 220:254; 220:290 (3 hrs.); 220:293; 220:295 .....	12 hours
Approved electives (6 hrs. of 220:299 Research required on thesis option) .....	9 hours 21 hours

## Teacher of Students With Visual Impairments

This major will lead to an M.A.E. degree for teaching students with visual impairments from birth to 21. Students must complete the requirements for Early Childhood, Elementary, or Secondary Education major at the B.A. level to be enrolled in this major.

This major is available on the **thesis** and **non-thesis** options. A **minimum of 40 hours** is required for the **thesis** option; a **minimum of 37 hours** is required for the **non-thesis** option. **A minimum of fifteen (15) hours of 200-level course work is required on the thesis option. A minimum of twelve (12) hours of 200-level course work is required on the non-thesis option.**

The Graduate Record Examination (General Test) **is not** required for admission to the program.

Successful completion of a final research paper or an oral comprehensive examination is required for the **thesis** option, which will be determined based upon the student's needs. Successful completion of a final written comprehensive examination is required for the **non-thesis** option.

Note that students should take an additional nine hours of student teaching to qualify for the Teacher of Students With Visual Impairments State Endorsement.

Students interested in this program must submit a completed Application for Admission to Graduate Study and should contact the Department of Special Education for any other admission requirements. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

Required professional core:

Educational Psychology: 200:214 or Social Foundations: 260:234 .....	3 hours
Measurement and Research: 250:205 .....	3 hours

Required special education core:

Special Education: 220:293; 220:295 .....	6 hours
---	---------

TVI emphasis requirement:

Special Education: 220:124; 220:126; 220:127; 220:130; 220:132; 220:134; 220:136; 220:138 .....	22 hours
--	----------

Research: 220:299 .....

Thesis (6 hrs.)

Non-thesis (3 hrs.)

Thesis option 40 hours  
Non-thesis option 37 hours

## Doctor of Education Degree Program

This program is intended to provide practicing educators the opportunity to continue their study and earn the terminal professional degree in their field. The Ed.D. degree requires a **minimum of 60 semester hours of credit beyond the master's degree**. The Graduate Record Examination (General Test) is required for admission to the program.

There are three components to the program: 15 semester hours in a *Professional Common Core* of work in educational foundations, fundamentals, and research; 38 semester hours of *Advanced Professional Study* in one of six areas of intensive study and a related area; and a *Dissertation* of 7 semester hours.

By design, then, *all* students are required to study in basic areas that undergird and define educational practice and develop skills of problem definition, data collection and analysis, and interpretation. The six areas of intensive study provide for a specialized focus on practice. The six intensive study areas are: *Community Health Education, Curriculum and Instruction, Educational Leadership, Leisure, Youth and Human Services, Rehabilitation Studies, and Special Education*. (In some areas, it is possible to combine doctoral degree study with work toward an endorsement to perform a particular role in K-12 education.) **For brief definitions of the six areas see page 73.**

The **Special Education** area of intensive study is designed to provide students with a variety of leadership positions in public schools, higher education and human services agencies serving infants, children, youth and adults with disabilities. This program will center on preparing leaders who will be able to promote new meanings about diversity, develop inclusive school cultures and instructional programs, and forge productive relationships between schools and their communities. (For more information, contact the Head, Department of Special Education.)

Students interested in this program must submit a completed Application for Admission to Graduate Study. Graduate information and application for graduate admission can be found at [www.grad.uni.edu/admission/default.aspx](http://www.grad.uni.edu/admission/default.aspx).

For requirements concerning admission, candidacy, scholarship, residence, examinations, dissertation, and graduation for the Doctor of Education degree see page 73.

### I. Professional Common Core (15 hours)

**Education Foundations**.....3 hours

Interdepartmental, Education: 190:301.

#### Research:

Interdepartmental, Education: 190:303; 190:305;  
190:307.....9 hours

Measurement and Research: one of the following —

250:270; 250:300; 250:301; 250:310.....3 hours

### II. Advanced Professional Studies .....38 hours

This is the component of the program that relates to and supports the student's professional career goal. Students will **elect one of six areas** of intensive study. Specific course requirements for individual students will depend on faculty requirements and student background, interests, and goals. The only program limitations on work in this component are that the course work (including seminars, practica, independent readings, and independent research) be at the 200- or 300-level except as allowed by the general regulations (pages 74-75), and that there be a minimum of 6 hours outside of the elected area of intensive study. The six

## Program Requirements

### Special Education/Teaching

areas of intensive study are:

- Community Health Education
- Curriculum and Instruction
- Educational Leadership
- Leisure, Youth and Human Services
- Rehabilitation Studies
- Special Education

### III. Dissertation (7 hours)

This is the program component in which the student demonstrates proficiency in the integration of theory and practice (i.e., it involves the application of existing knowledge and/or results of individual research to an educational problem or situation).

Required:

**Doctoral Seminar:** 190:389..... 1 hour

**Dissertation Research:** 190:399.....6 hours  
60 hours

## Teaching (College of Education)

[www.uni.edu/coe/teaching](http://www.uni.edu/coe/teaching)

N. Davidson, Interim Head.

## Price Laboratory School

D. Smith, Director. K. Asmus, M. Balong, A. Barness, A. Beckman, A. Beharka, S. Blanco, S. Bromwich, K. Brown, R. Cole, K. Couch, L. Countryman, J. Cryer, M. Doyle, A. DuChene, L. Dykstra, P. Elser, R. Geiken, N. Geopfert, M. Guenther, R. Hawbaker, L. Henriksen, S. Hoffman, D. Kettner, R. Knivslund, K. Koch, A. Lockhart, J. Maltas, S. McCumber, K. Miller, C. Nielsen, L. Sharp, L. Smith, A. Spurr, J. Stichter, M. Stichter, J. Stone, C. Struck, M. Swanson, J. Tagtow, D. Tallakson, R. Vanderwall, B. Wagoner, L. Weber, M. Wilson, C. York, E. Zwanziger.

## Office of Student Field Experiences

D. Briggs, Director. T. Blaine, K. Blecha, C. Canning, V. Cornett, B. Gager, M. Henning, L. Hoeft, J. Kelly, L. Martin, J. Montgomery, K. Oakland, G. Reed, B. Riess, L. Rosulek, C. Schellhardt, M. Schroeder, J. Smith, C. Timion.

The Department of Teaching is responsible for the administration of multi-faceted programs of Price Laboratory School (PLS) and the Office of Student Field Experiences (OSFE).

## Price Laboratory School

[www.pls.uni.edu/](http://www.pls.uni.edu/)

The Price Laboratory School conducts a program of instruction for pupils enrolled in grades N/K through 12. The pupils primarily are residents of Cedar Falls and Waterloo and provide a rich, multi-cultural, public school setting which enables the laboratory school to respond fully to its university responsibilities. The school offers a comprehensive program of studies and activities. It is a member of the Area 267 Education Agency, and is accredited by the Iowa Department of Education and the North Central Association of Colleges and Schools.

The laboratory school serves three major functions for the university and the State of Iowa:

1. As a teacher education laboratory, the school provides a variety of direct clinical and classroom experiences for students from all departments of the university as they prepare to enter the teaching

profession. Members of the faculty supervise and direct these experiences and, in addition, teach university courses both on and off campus.

2. As a center for experimentation and research, the school is involved heavily in the writing of classroom instructional materials and the development of instructional methods and school curricula. Faculty members work together in project teams, frequently cooperating with colleagues across the university campus, at other Regents institutions, and with the Department of Education.
3. As an agent of leadership to Iowa elementary and secondary schools, the laboratory school regularly provides professional development activities for Iowa educators including: sponsors conferences and workshops; participates in the activities of professional organizations; provides extension and consultant services; teaches off-campus extension courses; and cooperates with local and state agencies in faculty development and in-service activities.

## Student Field Experiences

[www.uni.edu/stdteach](http://www.uni.edu/stdteach)

The Office of Student Field Experiences administers the university's program in student teaching which is required of all undergraduates seeking a teaching degree. The student teaching program is administered through the office of the Head of the Department of Teaching and is under the supervision of the Director of Teacher Education and the jurisdiction of the Dean of the College of Education.

Completion of the present undergraduate teaching curriculum requires a minimum of twelve semester hours of credit in student teaching for all teacher education majors except for those who have earned credit in student teaching in another college or university. Student teaching credit earned in other colleges or universities does not completely fulfill the student teaching requirements of the University of Northern Iowa. Students who have completed three or more semester hours of credit in student teaching at another college or university in the same areas as their major at the University of Northern Iowa will have their previous experience evaluated to determine how much additional student teaching is needed.

Teacher education majors seeking a dual endorsement (i.e., special education/elementary, elementary/secondary) must complete a minimum of twelve semester hours of student teaching. The twelve hours of student teaching will be divided between the two levels in the student teaching assignment. Elementary majors with a minor in special education must complete one-half of their twelve-hour student teaching experience in a regular classroom and one-half of their twelve-hour experience in a special education setting.

Special area majors (i.e., art, ESL, music, and physical education) receive K-8 and 5-12 endorsements. They are required to complete twelve semester hours of student teaching in the special subject area. Special area majors must complete student teaching at both the elementary and secondary school levels.

The primary purpose of student teaching is to provide the student the opportunity to experience, in depth, the full role and meaning of teaching in a real school setting. Specific emphasis is given to (1) the analysis of teaching and learning, (2) the preconditions of learning, (3) the organization of instructional content, (4) adapting methods and techniques to organization and content, (5) the logical process of teaching, and (6) principles of self-evaluation. This broad pattern of experiences, provided in either the campus laboratory school or off-campus affiliated schools, includes planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program.

A student teacher who withdraws from student teaching (280:1xx) prior to the mid-point of either the first or second assignment within the twelve-hour experience (if two placements) or before the mid-term of a single full semester assignment will receive a **W (Withdrawn)**. A student teacher who withdraws from student teaching after the midpoint of the student teaching term will receive a **No Credit** grade.

The applicant for student teaching who previously received a **No Credit** grade in 280:1xx must be recommended for placement to the Council on Teacher Education (CTE) by the Director of Teacher Education following consultation with the coordinator who gave the **No-Credit** grade and the head of the major department(s). Approval by CTE is required for placement.

The scholarship average required before a student is permitted to register for student teaching is specified on page 52. **A student must also have been fully admitted to the teacher-education program and must file an application for student teaching according to the time line published by the Office of Student Field Experiences. Students whose applications are received after the established deadline will not be guaranteed a placement in the semester for which they were a late applicant.**

## Theatre

### (College of Humanities and Fine Arts)

**www.uni.edu/theatre**

*E. Lange, Head. G. Berghammer, C. Colburn, L. Curtis, J. Edelnant, R. Glockner, C. Goatley, L. Grimm, J. Haislet, R. Koinzan, M. Parrott, A. RohrBerg, S. Taft.*

The Department of Theatre offers the following undergraduate programs. Specific requirements for these programs are listed within this Department of Theatre section in the following order:

#### Undergraduate Majors (B.A.)

Communication-Theatre-Teaching (also listed in Department of Communication Studies)

Theatre

#### Minors

Communication-Theatre-Teaching (also listed in Department of Communication Studies)

Theatre

## Majors

- Students may indicate their interest in majoring in theatre any time after their admission to UNI. Formal indication of interest shall be made via the Declaration of Curriculum form at which time the student will be considered a General Theatre major and will be assigned an advisor. (For freshmen, this shall be a freshman advisor.)
- A student's freshman year shall be devoted primarily to course work in the Liberal Arts Core and Creativity and Performance (with lab) and Stagecraft: Scenery/Lights or Stagecraft: Costumes. Major course work will be limited to courses as recommended by her/his freshman advisor and program policy.
- Students must maintain a minimum cumulative GPA of 2.50 in order to be eligible to participate in productions after practicum course work requirements are completed.
- Transfer students entering UNI with an associate arts (A.A.) degree will be admitted to major status if their cumulative GPA is 2.50 or better and upon the condition that the requirements of 48C:001

(Oral Communication) and 620:005/620:015/620:034 were satisfied at their junior/community colleges. Transfer students will take 490:010 (Creativity and Performance) and 490:011 (Creativity and Performance Lab) during their first semester at UNI as part of the transfer orientation process.

- Transfer students entering UNI without an A.A. degree will be subject to the admissions standards requirements of students beginning their higher education studies at UNI, i.e. #1 and 2.

## Minors

- Admission to a Theatre minor requires a Declaration of Curriculum form and consultation with the department office.

## Bachelor of Arts Degree Programs

### Communication – Theatre Major – Teaching

The Communication-Theatre-Teaching major requires a minimum of 122 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57), the Professional Education Requirements (page 51), and the following specified major requirements to complete the minimum of 122 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

The teaching major in communication and theatre is offered jointly by the Departments of Communication Studies and Theatre.

Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:015;

48C:024; 48C:031; 48C:071; 48C:074; 48C:141;

48C:187 .....29 hours

Theatre: 490:015; 490:024; 490:034 (these three courses

may be taken in any sequence; all are prerequisites

for 490:161); 490:109; 490:161 .....15 hours

Applied Activity Option: one hour from:

48C:091/48C:191 or 48C:093/48C:193 or 490:050.....1 hour

Electives: (3 hours from the following) .....3 hours

Communication: 48C:108 or 48C:110; 48C:122;

48C:124; 48C:126; 48C:144; 48C:174; 48C:176; 48C:178.

Theatre: 490:040; 490:060; 490:061; other courses are

available, consult with your advisor.

48 hours

## Theatre Major

The Theatre major requires a minimum of 120 total hours to graduate. This total includes Liberal Arts Core requirements (pages 55-57) and the following specified major requirements, plus electives to complete the minimum of 120 hours. Liberal Arts Core courses included in major program requirements are distinguished by *italics*.

Required:

Theatre core:

Theatre: 490:010; 490:011; 490:015; 490:016;

490:024; 490:034; 490:050 (3 required-ONE may

be in performance); 490:060; 490:061 .....25 hours

Nine hours from the **General Emphasis** listed below ..... 9 hours\*

Total hours for General **Theatre major** ..... 34 hours

**\*General** (9 hours):

9 hours from preliminary area emphasis course work which could include 3 hours of 490:040, 490:101, 490:121, 490:127, 490:129, 490:151, 490:155, 490:157, 490:168. Substitutions only by

## Program Requirements

### Theatre

departmental consent.

Students may choose to complete the Level One Reading List Comprehensive Exam (490:C01) to be eligible to declare an Area Emphasis (Performance, Design and Production, Drama and Theatre for Youth). Students who do not successfully complete the test or who opt not to take it are limited to completing the General Theatre major only.

#### Area Emphases:

Students who declare an area emphasis must complete the Level Two Reading List Comprehensive Exam (490:C02) by the end of their senior year in order to fulfill the requirements of the area emphasis. Failure to successfully complete the exam will cause the student to revert to the General Theatre major.

Required:

Theatre core:

Theatre: 490:010; 490:011; 490:015; 490:016;

490:024; 490:034; 490:050 (3 required-ONE may be in performance); 490:060; 490:061 .....25 hours

Area emphasis core..... 6 hours

Six hours of **area emphasis** core electives selected from the following: 490:056; 490:158; 490:160; 490:161; 490:168; 490:170; 490:199; 650:143.

One area emphasis chosen from below..... 15 hours

Total hours for **Theatre major with area emphasis** 46 hours

Option B: Theatre (12 hours)

Theatre: 490:015; 490:024; 490:034; (these three classes must be taken before 490:161); 490:161.

### Theatre Minor

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

Required:

Theatre core:

490:010; 490:011; 490:015 or 490:016; 490:050

(2 required-ONE may be in performance);

490:024; 490:034.....15 hours

A minimum of 9 credit hours in theatre as approved

by the department..... 9 hours  
24 hours

#### Performance Emphasis (15 hours)

490:121; 490:122; 490:126; 490:127 (2 required).

(Students selecting this major area emphasis are encouraged to consider the following electives: 490:027, 490:127, 490:128, 490:129, 650:143.)

#### Design and Production Emphasis (15 hours):

490:040; 490:140 (2 required); 490:141; 490:142; 490:143; 490:151 (1 hr.).

(Students selecting this major area emphasis are encouraged to consider the following electives: 490:140; 650:143; Art or Design courses outside of the department.)

#### Drama and Theatre for Youth Emphasis (15 hours):

490:101; 490:104; 490:106; 490:109; 3 hours of electives outside the department chosen in consultation with advisor.

## Minors

See page 209 for admission requirements for Theatre minors.

### Communication – Theatre Minor – Teaching

Liberal Arts Core courses included in minor program requirements are distinguished by *italics*.

The Communication - Theatre-Teaching minor is offered jointly by the Departments of Communication Studies and Theatre.

Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:024;

48C:074; 48C:187 ..... 18 hours

Option A or B (below) ..... 10-12 hours

28-30 hours

Option A: Communication (10 hours)

Communication: one hour from 48C:091/

48C:191 or 48C:093/48C:193; 48C:015; 48C:071.

Theatre: 490:101 or 490:106/CAP:106.



# Courses of Instruction

In the following pages, courses are designated by two numbers, separated by a colon. The first number refers to the department or area of the course; the second number refers to the specific course. For example, in the course designated 600:111 the "600" refers to the Department of Art and the "111" refers to the course. In registration always use the full number.

Courses 0-99 are primarily designed for freshman and sophomore students.

Courses 100-199 are primarily designed for junior, senior, and graduate students. *However, only those 100-level courses whose numbers are followed by a "g" provide graduate credit, e.g., 400:173(g).* In all courses of the 100(g) series, greater academic achievement, both qualitative and quantitative, is expected of those receiving graduate credit than those receiving undergraduate credit. Freshmen and sophomores may not register for 100(g)-level courses. Only in very special cases may an exception be granted by the appropriate department head.

Courses 200-299 are primarily designed for graduate students. Undergraduates seeking admission to graduate courses must secure the permission of the head of the department offering the course. Courses numbered 200 taken as an undergraduate cannot later be used for an advanced degree unless the student was eligible to earn graduate credit. See pages 43, 61-62.

Courses 300-399 are primarily designed for doctoral students.

Students are classified as follows:

	Earned Semester Hours
Freshman.....	less than 30
Sophomore.....	30-59
Junior.....	60-89
Senior .....	90 and over
Graduate classification is earned by admission to graduate study.	

## Semester Designation for Courses

Each course description has a semester(s) designation indicating when it is typically offered. The semester designation is listed at the end of each course description in parenthesis -- i.e., (Offered Fall and Spring), (Offered even Springs), (Variable), etc. Every effort will be made to abide by the designations, but this is not a guarantee that the course will be offered as indicated.

## Course Numbers Common to Many Departments

These common numbers may be used under named conditions by prefixing the department number:

**059, 159, 159g, 259**--Reserved for temporary courses of a special or experimental nature.

**133, 133g, 233 Workshop**--1-6 hrs. Offered for special groups as announced in advance. Students may take work in one or more workshops but may not use more than 6 hours toward graduation.

**179 Cooperative Education**--1-6 hrs. For students who wish to apply classroom learning to field experience. Requires approval by the faculty supervisor, the head of the academic department granting credit, and Cooperative Education/Internship staff for placement agreement, project, and credit arrangements. Credit may not be applied to a major or minor without approval by the department offering the major or minor. Co-op/Internship staff assist in developing placements and arranging student interviews with employers and maintain contact with student and employer during the co-op/internship experience. May be repeated for a maximum of 12 hours credit. (See page 41.)

**086, 186, 186g, 286 Studies in "\_\_\_\_\_"**--Courses to be offered by departments for specialized work not covered by regular courses. Credit and topic for "study" to be given in Schedule of Classes.

**09C, 19C, Open Credit**--1-6 hrs. (See page 41.)

**19P Presidential Scholars Research**--1-3 hrs. For Presidential Scholars only. Credit and topic to be approved by the Presidential Scholars Board. May be repeated once for a maximum of 6 hours.

**198 Independent Study**--Hours to be arranged in advance. A provision for undergraduate students to do work in a special area not offered in formal courses. (Does not provide graduate credit.) Permission of the head of the department offering the work is required. Projects must be approved well before the beginning of the semester in which the work is to be done. (See page 42.)

**199 Study Tour**--1-12 hrs. Offered as announced in the Summer Bulletin and Schedule of Classes. See Summer Bulletin for general description and consult appropriate department for specific information.

**285 or 385 Readings**--Offered as needed in the various disciplines - not offered as a class. Independent readings from a selected list as approved in advance by department head. Credit to be determined at time of registration.

**289 or 389 Seminar**--Offered as needed in the various disciplines. Credit and topic to be given in Schedule of Classes.

**29C Continuous Registration.** Graduate students who have completed all of their program but not all of their graduation requirements, e.g. comprehensive exams, thesis, paper/project, recitals, etc., must be continuously registered until the degree is completed. Students reaching this stage will be automatically registered in the course xxx:29C, AContinuous Graduate Student@, and assessed a \$50 fee. Continuous enrollment insures that students can access their university email accounts and utilize the library and its services through graduation.

**29R Directed Research**--1-12 hrs. Course is available to thesis and non-thesis students on a credit/no credit basis. Students may enroll in the course following enrollment in all allowable hours of xxx:299 (6-9 hours for thesis students and 3 hours for non-thesis students). Students may take this course for a maximum of 6 hours per semester. Please refer to individual programs for possible exceptions.

**297 or 397 Practicum**--2-3 hrs. Offered as needed in the various disciplines to provide practical experience in college teaching.

**299 or 399 Research**--For details of approval and registration, see pages 68, 72, and 79.

**300 Post**--Comprehensive Registration

## Individual Studies Program

Courses offered in the Individual Studies Program may have a prefix of 000:xxx instead of a department number. These include:

**192 Exploratory Seminar**--1-3 hrs.

**196 Interdisciplinary Readings**--1-3 hrs.

**197 Undergraduate Thesis**--3-6 hrs.

**198 Individual Study Project**--Hours arranged by Individual Studies Program Coordinator. (See pages 9 and 157 for additional information.)

# Guide to Course Numbers

## Alphabetical Order

120 Accounting  
 990 Anthropology  
 600 Art  
 42T Athletic Training  
 840 Biology  
 100 Business Administration, Interdepartmental  
 CAP Capstone, Liberal Arts Core  
 860 Chemistry and Biochemistry  
 710 Chinese  
 48\_ Communication Studies:  
   48C (Communication)  
   48E (Electronic Media)  
   48J (Journalism)  
   48P (Public Relations)  
 51\_ Communication Sciences and Disorders:  
   51C (Communicative Disorders)  
   51S (Speech-Language Pathology)  
 810 Computer Science  
 290 Counseling  
 982 Criminology  
 310 Design, Textiles, Gerontology, & Family Studies:  
   31F (Family Services/Family Studies)  
   31G (Gerontology)  
   31I (Interior Design)  
   31T (Textile and Apparel)  
 870 Earth Science  
 920 Economics  
 190 Education, Interdepartmental  
 270 Educational Leadership  
 200 Educational Psychology  
 210 Elementary, Early Childhood, and Middle Level Education  
 620 English Language and Literature  
 830 Environmental Science  
 160 Finance  
 720 French  
 970 Geography  
 740 German  
 440 Health, Physical Education, and Leisure Services, Interdepartmental  
 410 Health Promotion and Education  
 96\_ History  
   960 (Historical Study/Thematic/Graduate)  
   961 (United States History)  
   962 (Europe to 1700)  
   963 (Europe Since 1700)  
   964 (Non-Western History)  
 680 Humanities  
 690 Humanities, Interdepartmental  
 000 Individual Studies  
 330 Industrial Technology  
 240 Instructional Technology  
 890 Iowa Lakeside Laboratory  
 730 Japanese  
 700 Languages  
 430 Leisure, Youth and Human Services  
 230 Literacy Education  
 150 Management  
 130 Marketing  
 800 Mathematics  
 250 Measurement and Research  
 080 Military Science  
 520 Music  
 540 Music, Applied  
 570 Music Education and Methods  
 590 Music History and Musicology  
 530 Music Organizations and Ensembles  
 560 Music Techniques  
 580 Music Theory  
 595 Performance Literature and Repertory  
 650 Philosophy  
 880 Physics  
 420 Physical Education  
 94\_ Political Science:  
   940 (General Politics)  
   941 (Political Theory)  
   942 (American Politics)  
   943 (International Relations)  
   944 (Comparative Politics)  
 790 Portuguese

170 Postsecondary Education: Student Affairs  
 400 Psychology  
 950 Public Policy  
 770 Russian  
 300 Safety Education  
 350 School Library Media Studies  
 820 Science and Science Education  
 260 Social Foundations  
 900 Social Science  
 450 Social Work  
 980 Sociology  
 780 Spanish  
 220 Special Education  
 280 Teaching  
 630 TESOL/Applied Linguistics  
 490 Theatre  
 010 University, Interdisciplinary  
 640 World Religions

## Code Number Order

CAP Capstone, Liberal Arts Core  
 000 Individual Studies  
 010 University, Interdisciplinary  
 080 Military Science  
 100 Business Administration, Interdepartmental  
 120 Accounting  
 130 Marketing  
 150 Management  
 160 Finance  
 170 Postsecondary Education: Student Affairs  
 190 Education, Interdepartmental  
 200 Educational Psychology  
 210 Elementary, Early Childhood, and Middle Level Education  
 220 Special Education  
 230 Literacy Education  
 240 Instructional Technology  
 250 Measurement and Research  
 260 Social Foundations  
 270 Educational Leadership  
 280 Teaching  
 290 Counseling  
 300 Safety Education  
 310 Design, Textiles, Gerontology, & Family Studies  
   31F (Family Services/Family Studies)  
   31G (Gerontology)  
   31I (Interior Design)  
   31T (Textile and Apparel)  
   330 Industrial Technology  
 350 School Library Media Studies  
 400 Psychology  
 410 Health Promotion and Education  
 420 Physical Education  
 42T Athletic Training  
 430 Leisure, Youth and Human Services  
 440 Health, Physical Education and Leisure Services, Interdepartmental  
 450 Social Work  
 48\_ Communication Studies:  
   48C (Communication)  
   48E (Electronic Media)  
   48J (Journalism)  
   48P (Public Relations)  
 490 Theatre  
 51\_ Communication Sciences and Disorders:  
   51C (Communicative Disorders)  
   51S (Speech-Language Pathology)  
 520 Music  
 530 Music Organizations and Ensembles  
 540 Music, Applied  
 560 Music Techniques  
 570 Music Education and Methods  
 580 Music Theory  
 590 Music History and Musicology  
 595 Performance Literature and Repertory  
 600 Art  
 620 English Language and Literature  
 630 TESOL/Applied Linguistics  
 640 World Religions  
 650 Philosophy  
 680 Humanities  
 690 Humanities, Interdepartmental  
 700 Languages  
 710 Chinese  
 720 French

730 Japanese  
 740 German  
 770 Russian  
 780 Spanish  
 790 Portuguese  
 800 Mathematics  
 810 Computer Science  
 820 Science and Science Education  
 830 Environmental Science  
 840 Biology  
 860 Chemistry and Biochemistry  
 870 Earth Science  
 880 Physics  
 890 Iowa Lakeside Laboratory  
 900 Social Science  
 920 Economics  
 94\_ Political Science  
   940 (General Politics)  
   941 (Political Theory)  
   942 (American Politics)  
   943 (International Relations)  
   944 (Comparative Politics)  
 950 Public Policy  
 96\_ History  
   960 (Historical Study/Thematic/Graduate)  
   961 (United States History)  
   962 (Europe to 1700)  
   963 (Europe Since 1700)  
   964 (Non-Western History)  
 970 Geography  
 980 Sociology  
 982 Criminology  
 990 Anthropology

## Departmental Order

**Accounting**  
 120 Accounting  
**Art**  
 600 Art  
**Biology**  
 840 Biology  
 890 Iowa Lakeside Laboratory  
**Business Administration, College of, Interdepartmental**  
 100 Business Administration, Interdepartmental  
**CAP Capstone, Liberal Arts Core**  
**Chemistry and Biochemistry**  
 860 Chemistry and Biochemistry  
**Communication Studies**  
 48C (Communication)  
 48E (Electronic Media)  
 48J (Journalism)  
 48P (Public Relations)  
**Communication Sciences and Disorders**  
 51C (Communicative Disorders)  
 51S (Speech-Language Pathology)  
**Computer Science**  
 810 Computer Science  
**Curriculum and Instruction**  
 210 Elementary, Early Childhood, and Middle Level Education  
 230 Literacy Education  
 240 Instructional Technology  
 300 Safety Education  
 350 School Library Media Studies  
**Design, Textiles, Gerontology, & Family Studies**  
 310 Design, Textiles, Gerontology, & Family Studies  
 31F (Family Services/Family Studies)  
 31G (Gerontology)  
 31I (Interior Design)  
 31T (Textile and Apparel)  
**Earth Science**  
 870 Earth Science  
**Economics**  
 920 Economics  
**Education, Interdepartmental**  
 190 Education, Interdepartmental  
**Educational Leadership, Counseling, and Postsecondary Education**  
 170 Postsecondary Education: Student Affairs  
 270 Educational Leadership  
 290 Counseling  
**Educational Psychology and Foundations**  
 200 Educational Psychology  
 250 Measurement and Research  
 260 Social Foundations

**English Language and Literature**  
 620 English Language and Literature  
 630 TESOL/Applied Linguistics  
**Finance**  
 160 Finance  
**Geography**  
 970 Geography  
**Health, Physical Education, and Leisure Services, School of**  
 410 Health Promotion and Education  
 420 Physical Education  
 42T Athletic Training  
 430 Leisure, Youth and Human Services  
 440 Health, Physical Education, and Leisure Services, Interdepartmental  
**History**  
 960 (Historical Study/Thematic/Graduate)  
 961 (United States History)  
 962 (Europe to 1700)  
 963 (Europe Since 1700)  
 964 (Non-Western History)  
**Humanities**  
 680 Humanities  
**Humanities and Fine Arts, Interdepartmental**  
 690 Humanities, Interdepartmental  
**Interdisciplinary**  
 000 Individual Studies  
 010 University, Interdisciplinary  
**Industrial Technology**  
 330 Industrial Technology  
**Management**  
 150 Management  
**Marketing**  
 130 Marketing  
**Mathematics**  
 800 Mathematics  
**Military Science**  
 080 Military Science  
**Modern Languages**  
 700 Languages  
 710 Chinese  
 720 French  
 730 Japanese  
 740 German  
 770 Russian  
 780 Spanish  
 790 Portuguese  
**Music, School of**  
 520 Music  
 530 Music Organizations and Ensembles  
 540 Music, Applied  
 560 Music Techniques  
 570 Music Education and Methods  
 580 Music Theory  
 590 Music History and Musicology  
 595 Performance Literature and Repertory  
**Philosophy and World Religions**  
 640 World Religions  
 650 Philosophy  
**Physics**  
 880 Physics  
**Political Science**  
 940 (General Politics)  
 941 (Political Theory)  
 942 (American Politics)  
 943 (International Relations)  
 944 (Comparative Politics)  
**Psychology**  
 400 Psychology  
**Public Policy**  
 950 Public Policy  
**Science**  
 820 Science and Science Education  
 830 Environmental Science  
**Social Science**  
 900 Social Science  
**Social Work**  
 450 Social Work  
**Sociology, Anthropology, and Criminology**  
 980 Sociology  
 982 Criminology  
 990 Anthropology  
**Special Education**  
 220 Special Education  
**Student Field Experiences**  
 280 Teaching  
**Theatre**  
 490 Theatre

## Course Descriptions

The following is a listing of all of the courses offered by the various departments of the university. The courses are listed in numerical order.

A course which has been **re-numbered** effective Fall 2008 semester (2008-2010 Programs and Courses) has the course's **former number italicized and listed in parenthesis ( )** at the end of the new course number's description.

### CAP Capstone, Liberal Arts Core

The following courses satisfy the Liberal Arts Core Category 6 Capstone Experience. The complete current list of approved Liberal Arts Core Capstone courses are designated in each semester Schedule of Classes and also on the Liberal Arts Core Web site [www.uni.edu/lac](http://www.uni.edu/lac).

#### CAP:102. Living in Our Techno-Social World - 3 hrs.

Exploration of the complex relationships between technology and society. Students discover how social systems affect the nature and use of technology and how the nature and use of technology affect social systems. Prerequisite(s): junior standing. (Same as 330:102) (Offered Spring)

#### CAP:106. Theatre in Education - 3 hrs.

Application of theatre performance and improvisation techniques to the teaching of a specific curricular topic intended for young audiences. Prerequisite(s): junior standing. (Same as 490:106) (Variable)

#### CAP:110. Obesity and Diabetes: Science, Sociology and Economics - 2 hrs.

Over the last 20 years Americans, as well as the rest of the world, have been gaining weight at an alarming rate. As a consequence, diseases such as diabetes, high blood pressure, stroke, heart attack and kidney failure have become more prevalent. Discussion of the possible origins and examination of potential solutions for two pathologies - obesity and diabetes. Prerequisite(s): junior standing. (Same as 840:110) (Variable)

#### CAP:121. Creativity and the Evolution of Culture - 3 hrs.

Explores creativity from a Systems Perspective - as achievement resulting from a confluence of the Individual, the Domain, and the Field. Investigates creativity's role in the advance of culture; provides student opportunities to enhance personal creativity. Prerequisite(s): junior standing. (Variable)

#### CAP:122. Building Communities: Developing Intentional Family Spaces - 3 hrs.

Students critically explore the impact of changing space needs of families on decision-making from a variety of disciplines. Particularly, contextual scenarios using a multidisciplinary perspective offer insights into how a 'house/residence' becomes a 'home' for diverse families. Prerequisite(s): junior standing. (Variable)

#### CAP:123. Greece: From the "Cradle of Democracy" to Today - 3 hrs.

A three-week, summer study-abroad and experiential learning course in Greece that allows students to experience Greece and its diverse cultural heritages from the perspectives of geography, history, religion, material culture (i.e., visits to archaeological sites, museums, monuments, churches, etc.) and contemporary Greeks. Prerequisite(s): junior standing. (Variable)

#### CAP:124. Democracies - 3 hrs.

Addresses the varieties of democracy in theory and practice. Examines the threats to and opportunities for democracy posed by globalization. Studies relationships between democracy and various economic systems and geographical issues. Prerequisite(s): junior standing. (Variable)

#### CAP:125. Globalization, Cultural Pluralism and International Security - 3 hrs.

Addresses the impact of globalization and cultural pluralism on the quality of human life and international security. Special emphasis given to en-

vironmental, ethnic, and international migration issues. Prerequisite(s): junior standing. (Formerly 010:125) (Variable)

#### CAP:128. Ethics in Communication - 3 hrs.

Exploration of ethical dimensions and dilemmas in communication. Prerequisite(s): junior standing. (Same as 48C:128) (Offered Spring)

#### CAP:129. Being National - 3 hrs.

Nearly all people in the world today are "national". But what really is national identity? Has it always existed? Where does it come from? This course examines the evolution of modern nations since the eighteenth century; the character of "being national" today in America, Europe, and other areas of the world; the powerful role that religion continues to play in national identity formation; the implications of globalization for national identity; how immigrants experience national identity; and, finally, the constructed and contingent nature of nations and national identity. Prerequisite(s): junior standing. (Variable)

#### CAP:130. Science and Pseudoscience: Critiquing the World Around You - 3 hrs.

Daily, we are bombarded with interesting and novel breakthroughs and findings, for which these claims may or may not be true. This course builds off student knowledge to apply critical thinking and scientific analysis to controversial topics from various disciplines in the world around us. Prerequisite(s): junior standing. (Offered Fall and Spring)

#### CAP:131. Analysis of Social Issues - 3 hrs.

Critical thinking skills applied to rhetoric about issues confronting society. How to use philosophy, logic, social science and natural science to critique arguments and engage in meaningful discourse. Prerequisite(s): junior standing. (Offered Spring and Fall)

#### CAP:132. Medicine, Morality, and Society - 3 hrs.

Interdisciplinary study of how health and illness are socially constructed realities. Elaborates on student's previous university experiences and develops her/his understanding of how the experience of health and illness are socially influenced. Prerequisite(s): junior standing. (Variable)

#### CAP:134. Back in the Valley: Martin Luther King, Jr. and the 21st Century - 3 hrs.

Using the social thought and action of Martin Luther King, Jr., as an analytical backdrop, students explore the socioeconomic and political context in the United States today. Students will be required to examine their own moral development, social thinking, faith perspectives, and decision-making processes. Uses an interdisciplinary and comprehensive approach. Students are required to investigate what community resources are available for the disadvantaged. Prerequisite(s): junior standing. (Variable)

#### CAP:140. Environment, Technology, and Society - 2 hrs.

Emphasis on relationships and interactions of physical, biological, technological, and cultural components of environment. Study of selected interdisciplinary problems. Elaborates on student's previous university experience and develops environmental literacy. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics; completion of both Liberal Arts Core Life Sciences and Physical Sciences requirements; junior standing. (Same as 820:140) (Offered Fall, Spring, and Summer)

#### CAP:148. The Holocaust in Literature and Film - 3 hrs.

Examination of the different perspectives and developments of Jewish and non-Jewish voices in response to the Holocaust experience in literature and film within the context of the German-speaking cultures and beyond. Prerequisite(s): junior standing. (Same as 740:148) (Variable)

#### CAP:150. Science, Mathematics, and Technology in the Americas - 3 hrs.

Surveys the unique contributions made by indigenous and immigrant populations to the development of science, mathematics, and technology in the Americas. Interdepartmentally team-taught. Prerequisite(s): junior standing. (Same as 820:150) (Variable)

**CAP:151. Money, Sex and Power: Theories of Race, Class and Gender - 3 hrs.**

Examination of social and ethical aspects of oppression and privilege in personal and political life. Study of concepts and meaning of categories such as race, ethnicity, class, gender and sexuality, and evaluation of strategies of resistance and/or accommodation. Prerequisite(s): junior standing. (*Same as 650:151*) (Offered Fall and Spring)

**CAP:152. Complementary, Alternative, and Integrative Health - 3 hrs.**

Introduction to the concepts, theoretical basis, evidence-based analysis, and challenges and issues in integrative health and complementary and alternative medical practices (CAM). Integrative, alternative, and complementary medicine covers a broad range of healing philosophies, approaches, and therapies involving the use of holistic or culturally-specific health services and practices in the treatment of illness and disease and embraces an expanded concept of health and illness. Prerequisite(s): junior standing. (*Same as 410:152*) (Variable)

**CAP:155. Socio-Economic Reality of Central America - 2 hrs.**

Focus on the impact of culture in the work environment and the social and economic environment of Central America to explore how culture might impact a country's economic status in the global economy. Prerequisite(s): junior standing. (*Same as 100:155*) (Offered Fall and Spring)

**CAP:160. Community and Public Health - 3 hrs.**

Examination of the major public health issues facing the U.S. and world population. Investigation of major public health initiatives, public policy, and ethical issues related to public health. Prerequisite(s): junior standing. (*Same as 410:160*) (Variable)

**CAP:173. Bio-Medical Ethics - 3 hrs.**

Application of principles and analytic methods of ethical theory to contemporary issues in medical practice and research. Topics include fundamental concepts of health and disease, life and death; rights and obligations of medical practitioners and their patients; informed consent and confidentiality; abortion and euthanasia; reproductive and transplantation technologies; and health policy and the provision and rationing of health care. Prerequisite(s): junior standing. (*Same as 640:173 and 650:173*) (Offered Fall and Spring)

**CAP:187. Blues and Jazz in African American Film and Literature - 3 hrs.**

African American experiences in Spirituals, Blues, Gospel, Ragtime, Jazz, and Rap/Hip-Hop applied to study of narrative strategies, themes, and ideologies of resistance and survival in African American films and literature. Prerequisite(s): junior standing. (*Same as 620:187*) (Variable)

**CAP:194. Perspectives on Death and Dying - 3 hrs.**

Multidisciplinary study of death, dying, and bereavement across cultures, religious and ethnic groups, and historical periods, with attention to ritual and memoir, ethical dilemmas at the end of life, and psychology of mourning. Prerequisite(s): junior standing. (*Same as 640:194 and 650:194*) (Offered Fall and Spring)

**010 University, Interdisciplinary**

**010:092. Presidential Scholars Seminar - 1-3 hrs.**

For Presidential Scholars only. Credit and topic listed in the Schedule of Classes. May be repeated in a different topic. (Variable)

**010:196. Honors Seminar - 3 hrs.**

Seminar covering selected topics. Some sections may be restricted to University Honors students. May be repeated for credit. Prerequisite(s): sophomore standing or consent of instructor. (Variable)

**010:197. Honors Thesis - 1-3 hrs.**

Development and approval of thesis topic followed by completion of thesis and public presentation. May be repeated for maximum of 3 hours. Some sections may be restricted to University Honors students. Prerequisite(s): senior standing or consent of instructor. (Variable)

**XXX:19P. Presidential Scholars Research - 1-3 hrs.**

For Presidential Scholars only. Credit and topic to be approved by the Presidential Scholars Board. May be repeated once for a maximum of 6 hours. (Variable)

**080 Military Science**

**Basic Courses - 080:091 through 080:098**

**Advanced Courses - 080:116 through 080:192**

**080:091. Leadership and Personal Development - 1 hr.**

Introduces students to the personal challenges and competencies that are critical for effective leadership in the military. Students learn how the personal development of life skills such as goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. Discussion, 1 hr./wk., lab arranged, plus 1 field trip. (Offered Fall)

**080:092. Introduction to Tactical Leadership - 1 hr.**

Overviews leadership fundamentals for the military profession such as setting direction, problem-solving, listening, presenting briefs, providing feedback and using effective writing skills. Students explore dimensions of military leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises. Discussion, 1 hr./wk., lab arranged, plus 1 field trip. (Offered Spring)

**080:093. Foundations of Tactical Leadership - 2 hrs.**

Examines the challenges of leading in complex contemporary military operational environments. Dimensions of the cross-cultural challenges of military leadership in a constantly changing world are highlighted and applied to practical leadership tasks and situations. Discussion 2 hrs./wk., lab arranged, plus 1 field trip. (Offered Spring)

**080:094. Innovative Team Leadership - 2 hrs.**

Explores the dimensions of creative and innovative military leadership strategies and styles by studying historical case studies and engaging in interactive student exercises. Students practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises. Discussion, 2 hrs./wk., lab arranged, plus 1 field trip. (Offered Fall)

**080:095. Military Survival Skills - 2 hrs.**

Basic military survival principles are discussed in class and demonstrated during a Survival Weekend. Concepts taught are: shelter building, water and food gathering, land navigation, first aid, and rescue signaling. Discussion, 1 hr./wk.; lab, 1 hr./wk., plus 1 field trip. (Offered Fall and Spring)

**080:098. Military Science Leadership Practicum - 4-6 hrs.**

A five-week summer program at Fort Knox, Kentucky, designed to provide leadership experiences to sophomores. Successful completion will qualify students to enroll in the ROTC Advanced Course. Prerequisite(s): departmental approval. (Offered Summer)

**080:116. Adaptive Tactical Leadership - 3 hrs.**

Challenges students to study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Students receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback, as well as their own self-evaluations, cadets continue to develop their leadership and critical thinking abilities. Discussion, 3 hrs./wk.; lab, 1 hr./wk. Prerequisite(s): departmental approval. (Offered Fall)

**080:117. Leadership in Changing Environments - 3 hrs.**

Uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations up to platoon level. Students review aspects of combat, stability and support operations. They also conduct military briefings and develop proficiency in garrison

operation orders. Discussion, 3 hrs./wk.; lab, 1 hr./wk. Prerequisite(s): departmental approval. (Offered Spring)

**080:118. Developing Adaptive Leaders - 3 hrs.**

Develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Students assess risk, make ethical decisions, and lead fellow ROTC students. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. Discussion, 3 hrs./wk.; lab, 1 hr./wk. Prerequisite(s): departmental approval. (Offered Fall)

**080:119. Leadership in a Complex World - 3 hrs.**

Explores the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). Students examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host national support. Discussion, 3 hrs./wk.; lab, 1 hr./wk. Prerequisite(s): departmental approval. (Offered Spring)

**080:189. Readings in Contemporary Military Issues - 1-6 hrs.**

Individualized list of selected readings in an area of emphasis. Prerequisite(s): departmental approval. (Offered Fall, Spring, and Summer)

**080:192. Leadership Practicum - 4-6 hrs.**

A five-week summer program at Fort Lewis, Washington, designed to provide leadership development and opportunities for students participating in the Advanced Course. Prerequisite(s): departmental approval. (Offered Summer)

## 100 Business Administration, Interdepartmental

**100:040. Financial Fundamentals for Entrepreneurs - 3 hrs.**

Essential accounting and finance preparation for entrepreneurial endeavors. Those with credit in 120:030 and 160:151 may have this course waived. Does not substitute for 120:030 or 160:151. Those with credit in 120:030 may not earn credit for this course. Prerequisite(s): 920:024. (Offered Fall)

**100:155. Socio-Economic Reality of Central America - 2 hrs.**

Focus on the impact of culture in the work environment and the social and economic environment of Central America to explore how culture might impact a country's economic status in the global economy. Prerequisite(s): junior standing. (Same as CAP:155) (Offered Fall and Spring)

**100:169. International Experience - 0 hr.**

The successful completion of an approved study abroad experience, or a departmental internship or cooperative education experience that includes a significant international component. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

## 120 Accounting

**No Accounting courses may be taken on a credit/no credit basis by an Accounting Major or by an individual designated as CPA Advanced Study status, except 120:169, 120:170, 120:179, and 120:269.**

**120:030. Principles of Financial Accounting - 3 hrs.**

Introduction to reporting financial information regarding the operating, investing and financing activities of business enterprises to present and potential investors, creditors, and others. *Regression note:* Subsequent to successfully completing a 100-level Accounting course, neither 120:030 nor 120:031 may be repeated. Prerequisite(s): sophomore standing. (Offered Fall, Spring, and Summer)

**120:031. Principles of Managerial Accounting - 3 hrs.**

Introduction to processes leading to information useful to decision-makers responsible for an accounting entity's activities. Includes product costing, cost behavior, budgeting, performance analysis, and relevant costs. *Regression note:* Subsequent to successfully completing a 100-level Accounting course, neither 120:030 nor 120:031 may be repeated. Prerequisite(s): C- or better in 120:030; sophomore standing. (Offered Fall, Spring, and Summer)

**120:129. Intermediate Accounting I - 3 hrs.**

In-depth coverage of the theory and practice of financial accounting for assets, including accounting standards/concepts development, time value of money, and revenue recognition. Prerequisite(s): 120:030; 120:031; junior standing. (Offered Fall, Spring, and Summer)

**120:130. Intermediate Accounting II - 3 hrs.**

In-depth coverage of the theory and practice of financial accounting for liabilities and equity, including earnings per share, deferred taxes, pensions, leases, accounting changes, error corrections, and cash flows. Prerequisite(s): 120:030; 120:031; C- or better in 120:129; junior standing. (Offered Fall, Spring, and Summer)

**120:131. Cost Accounting - 3 hrs.**

Management use of accounting data to aid in product costing, performance measurement, budgeting, and other operating decisions. Prerequisite(s): 120:030; 120:031; junior standing. (Offered Fall and Spring)

**120:132. Income Tax - 3 hrs.**

Introductory course in federal income taxation as applied to individuals and businesses; emphasis on income and expense recognition, individual taxation, and property transactions. Prerequisite(s): 120:030; 120:031; 120:129; junior standing. (Offered Fall and Spring)

**120:134. Auditing - 3 hrs.**

Principles, practices, and procedures used to determine reliability of financial records and statements. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; junior standing. (Offered Fall and Spring)

**120:135(g). Advanced Accounting - 3 hrs.**

Accounting for business combinations, foreign currency translation, consolidations, and derivatives and hedging. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; junior standing. (Offered Fall and Spring)

**120:136. Accounting Information Systems - 3 hrs.**

Analysis of computer-based accounting information systems including flowcharting of business processes and study of internal controls; involves significant manual and computerized practice cases. Prerequisite(s): 120:030; 120:031; 120:129; 150:080; junior standing. (Offered Fall and Spring)

**120:139(g). Government and Not-for-Profit Accounting - 3 hrs.**

In-depth coverage of the theory and practice of governmental and not-for-profit accounting. Includes financial reporting requirements for government-wide consolidations/reconciliations and CAFR. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; junior standing. (Offered Fall and Spring)

**120:141(g). Advanced Cost Accounting - 3 hrs.**

Emphasis on advanced costing techniques such as activity based costing, benchmarking, balanced scorecard, theory of constraints, and others necessary for management decision making. Prerequisite(s): 120:030; 120:031; C- or better in 120:131; junior standing. (Variable)

**120:142. Advanced Income Tax - 3 hrs.**

Advanced income taxation as relates to corporations, partnerships, pass-through entities, trusts, and estates. Examines a framework for integrating tax planning into accounting and business decisions. Prerequisite(s): 120:132; junior standing. (Offered Spring)

**120:144. VITA: Individual Income Tax Preparation - 1 hr.**

VITA, an acronym for Volunteer Income Tax Assistance, is a nationwide program sponsored by the Internal Revenue Service. VITA volunteers prepare federal and state income tax returns, at no charge, for primarily low-

## 120 Accounting/130 Marketing

income individuals. Designed to give students an experiential learning opportunity. May be repeated for maximum of 3 hours. Prerequisite(s): 120:132. (Offered Spring)

### **120:145(g). Principles of Fraud Examination - 3 hrs.**

Examination of motivation, prevention, detection, investigation, and resolution of fraud. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; 120:134; 120:136; 150:080; junior standing. (Offered Fall and Spring)

### **120:148. C.P.A. Review - 3 hrs.**

Designed to aid candidates in developing approaches to solutions of problems and answers to questions in the CPA examinations. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; 120:134; junior standing. (Offered Spring)

### **120:150. Auditing Review - 1 hr.**

Intensive review of auditing concepts to prepare accounting students for the Auditing section of the CPA examination. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; 120:134; junior standing. (Offered Spring)

### **120:169. Internship - Accounting - 2-8 hrs.**

Full-time accounting internship for minimum of eight weeks. Offered on credit/no credit basis only. Prerequisite(s): 2.70 cumulative UNI GPA; junior standing; consent of department head. (Offered Fall, Spring, and Summer)

### **120:170(g). Special Problems - Accounting - 1-3 hrs.**

Directed readings, reports, and/or projects. Offered on credit/no credit basis only. Prerequisite(s): junior standing; consent of department head. (Offered Fall, Spring, and Summer)

### **120:179. Cooperative Education in Accounting - 1-3 hrs.**

Offered on credit/no credit basis only. May be repeated for a maximum of 6 hours. (Offered Fall, Spring, and Summer)

### **120:185. Individual Readings - 1-3 hrs.**

Directed readings and reports. May be repeated for maximum of 6 hours. Prerequisite(s): consent of department head or MAcc coordinator. (Offered Fall, Spring, and Summer)

### **120:214. Applied Professional Research - 3 hrs.**

Study and application of research methods for accounting professionals in financial accounting, auditing, and tax with emphasis on communication and analytic skills. Prerequisite(s): 120:132; 120:134; admission to MAcc program. (Offered Fall)

### **120:229. Financial Accounting Theory and Analysis - 3 hrs.**

In-depth review and analysis of theoretical foundations of corporate financial reporting. Prerequisite(s): admission to MAcc program. (Offered Fall)

### **120:236. Advanced Accounting Systems - 3 hrs.**

Provides in-depth understanding of accounting information system technologies and theories as well as corporate governance as relates to internal control. Topics include the technologies and theories most relevant to current practice. Prerequisite(s): 120:136; 150:080; admission to MAcc program. (Offered Fall)

### **120:240. Advanced Auditing - 3 hrs.**

Examination of selected professional issues that will be confronted in practice. Specific topical coverage will vary as contemporary issues emerge. Prerequisite(s): 120:134; admission to MAcc program. (Variable)

### **120:242. Advanced Tax Topics - 3 hrs.**

Covers advanced issues related to income taxation of corporations, partnerships, S corporations and fiduciaries, and estate and gift taxes. Emphasis on conceptual understanding and problem solving. Prerequisite(s): 120:132; admission to MAcc program. (Offered Spring)

### **120:262. Managerial Accounting - 3 hrs.**

Use of accounting data in managerial decision-making process and in the analysis and control of business operations. Prerequisite(s): 120:030 and 120:031, or equivalent; consent of MBA Director or MAcc Coordinator. (Offered Fall)

### **120:263. Cost Management - 3 hrs.**

Study of the development and implementation of cost management systems that support operations in "World Class" manufacturing, service, and other organizations. Includes activity-based costing, costs of quality, strategic control systems, and management control systems. Prerequisite(s): 120:131; admission to MAcc program. (Variable)

### **120:269. Graduate Internship in Accounting - 1-6 hrs.**

Offers students enrolled in the Master of Accounting Program an opportunity to apply classroom learning in a professional accounting environment. Offered on credit/no credit basis only. Prerequisite(s): admission to MAcc program; consent of MAcc Coordinator. (Offered Fall, Spring, and Summer)

### **120:280. Topics in Accounting - 1-3 hrs.**

Selected topics in Accounting. May be repeated for maximum of 6 hours. Anticipated typical credit of 1 hour. Prerequisite(s): consent of MBA Director or admission to MAcc program. (Variable)

### **120:285. Individual Readings - 1-4 hrs.**

Directed readings and reports. May be repeated for a maximum of 4 hours. Prerequisite(s): consent of MBA Director and department head, or consent of MAcc Coordinator. (Offered Fall, Spring, and Summer)

### **120:289. Seminar in Contemporary Issues in Accounting - 3 hrs.**

Seminar on topics offered on a rotating basis. Offerings include contemporary issues in auditing, tax planning, international tax and accounting, and accounting theory. May be repeated one time for additional credit. Prerequisite(s): consent of MBA Director or admission to MAcc program. (Variable)

### **120:299. Research - 1-6 hrs.**

Prerequisite(s): consent of MBA Director and department head, or consent of MAcc Coordinator. (Offered Fall, Spring, and Summer)

## 130 Marketing

### **130:101. Principles of Marketing - 3 hrs.**

Survey course dealing with the role of marketing in society, customer determination and selection, product management, channels of distribution, pricing concepts, and promotional activity within an economic and business environment. Prerequisite(s): 920:024 or 920:053. (Offered Fall, Spring, and Summer)

### **130:106(g). Consumer Behavior - 3 hrs.**

Recent findings of psychologists, sociologists, anthropologists, and marketers in relationship to internal and external influences on buyer behavior and marketing-related decision making. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall, Spring, and Summer)

### **130:108(g). Marketing Research - 3 hrs.**

Procedures used in defining a marketing problem and carrying out the research necessary for its proper solution. Prerequisite(s): 130:101; 150:080; 800:072 or 800:092; 920:020; 920:024 or 920:053; 920:070; junior standing. (Offered Fall and Spring)

### **130:131. New Product Management - 3 hrs.**

Study of the "Product" marketing mix element, with focus on new product development, from idea generation through commercialization. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall)

### **130:142. Pricing - 3 hrs.**

Study of price as one of the major components of marketing, from economic, psychological, and sociological perspectives. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Spring)

### **130:150. Advertising and Promotion - 3 hrs.**

Decision making in advertising, consumer promotion, sales promotion, and public relations. Includes market analysis, establishing promotion objectives, budgeting, media/promotion mix selection, communication techniques, and evaluation of effectiveness. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall and Spring)

**130:153. Personal Selling and Sales Management - 3 hrs.**

Study of the trust-based sales process of identifying buyer needs; problem-solving systems selling approach; enhancement of long-term customer relationships; and management of personal selling activities. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall and Spring)

**130:160. Interactive Marketing - 3 hrs.**

Study of electronic marketing communications; utilizing search engines and utilizing and creating databases; customer relationship management. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing; Marketing major. (Offered Fall)

**130:161. Distribution and Logistics - 3 hrs.**

Study of behavioral dimensions of channel relations, and management of the global physical movement of products and related information by channel members and third party facilitators to provide desired customer service levels. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall)

**130:166. Retail Management - 3 hrs.**

Study of tools and decisions in managing or owning a retail business; strategic planning, audit, trade-area analysis, location planning, franchising, pricing, computerization, operations and merchandise management. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Spring)

**130:169. Internship-Marketing - 2-8 hrs.**

Full-time internship in a marketing-related business for a minimum of eight weeks. Maximum of 3 hours may be applied to Marketing major electives category. Prerequisite(s): 130:101; 130:106; 130:108; 150:080; 800:072 or 800:092; 920:020; 920:024 or 920:053; 920:070; UNI cumulative GPA of 2.50 or better; senior standing; consent of department head. (Offered Fall, Spring, and Summer)

**130:170(g). Entrepreneurship - 3 hrs.**

Exploration of entrepreneurial qualities; opportunity assessment; new venture strategic planning and contemporary environmental issues; developing a business plan. No credit if credit previously earned in 130:172. Prerequisite(s): 100:040 or (120:030; 120:031; prerequisite or corequisite 160:151; 800:072 and 920:070); 130:101; 920:024 or (920:053 and 920:054); junior standing. Prerequisites for Business Teaching minors: 120:030; 120:031; 130:101; 160:055; 920:024 or (920:053 and 920:054); junior standing. (Offered Fall)

**130:175(g). New Venture Development and Management - 3 hrs.**

Procedures for organizing, financing, and implementing a new venture; managing start-up and growth phases; experiential learning project. No credit if credit previously earned in 130:173. Prerequisite(s): 100:040 or (120:030; 120:031; prerequisite or corequisite 160:151; 800:072 and 920:070); 130:101; 920:024 or (920:053 and 920:054); junior standing. Prerequisites for Business Teaching minors: 120:030; 120:031; 130:101; 130:170; 160:055; 920:024 or (920:053 and 920:054); junior standing. (Offered Spring)

**130:177(g). Global Marketing - 3 hrs.**

Marketing practices and trends in businesses serving foreign markets. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall and Spring)

**130:178. Services Marketing - 3 hrs.**

Develops an understanding of service as a product or component of a product. Provides an opportunity to gain an appreciation for the unique challenges inherent in marketing and managing services, and service products. Topics include service design and delivery, service quality and standards, and roles played by both service provider and customer. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing. (Offered Fall and Spring)

**130:179. Cooperative Education in Marketing - 1-6 hrs.**

Offered on credit/no-credit basis only. Not accepted for credit toward the

Marketing major, but can be used as a university elective. Prerequisite(s): 130:101; 920:024 or 920:053; UNI cumulative GPA of 2.50 or better; consent of department head. (Offered Fall, Spring, and Summer)

**130:180. Topics in Marketing - 3 hrs.**

Examination of various aspects of marketing through discussions of specific topics. Prerequisite(s): 130:101; 920:024 or 920:053. Additional prerequisites may vary by topic. (Variable)

**130:191(g). Marketing Strategy - 3 hrs.**

Integration of major marketing functions from a managerial perspective. Emphasis on developing marketing strategies and applying strategic marketing decisions. Prerequisite(s): 130:101; 130:106; 130:108; 150:080; 800:072 or 800:092; 920:020; 920:024 or 920:053; 920:070; senior standing. (Offered Fall and Spring)

**130:197(g). Experiential Learning in Entrepreneurship - 3 hrs.**

Work experience, directed research, or UNI class substituted to provide focused entrepreneurial emphasis to certificate program. Not for students with majors in Accounting, Business Teaching, Economics-Emphasis 3, Finance, Management, Management Information Systems, Marketing, or Real Estate. Prerequisite(s): 100:040; 130:101; 130:170; 920:024; junior standing. Requires approval of T. Wayne Davis Chair of Entrepreneurship or Marketing Department Head. (Variable)

**130:198. Independent Study - 1-6 hrs.**

Not accepted for credit toward the Marketing major, but can be used as a university elective. Prerequisite(s): 130:101; 920:024 or 920:053; junior standing; consent of department head. (Offered Fall, Spring, and Summer)

**130:263. Marketing Management - 3 hrs.**

Integrated approach to marketing from managerial viewpoint using economic, quantitative, and behavioral concepts in analyzing and developing framework for decision making and implementing a marketing program. Prerequisite(s): consent of MBA Director. (Offered in MBA Module II - begins mid-November and ends mid-January)

**130:280. Topics in Marketing - 1-3 hrs.**

Selected topics in marketing. May be repeated for maximum of 6 hours. Anticipated typical credit of 1 hour. Prerequisite(s): consent of MBA Director. (Variable)

**130:285. Individual Readings - 1-3 hrs.**

May be repeated for a maximum of 4 hours. Prerequisite(s): consent of department head and MBA Director. (Offered Fall, Spring, and Summer)

**130:297. Practicum - 1-3 hrs.**

Prerequisite(s): consent of department head and MBA Director. (Offered Fall, Spring, and Summer)

**130:299. Research - 1-6 hrs.**

Prerequisite(s): consent of department head and MBA Director. (Offered Fall, Spring, and Summer)

**150 Management****150:032. Introduction to Business Programming - 3 hrs.**

Introduction to business programming concepts and methodologies. Design and documentation of typical business applications using a business programming language. Prerequisite(s): 150:080. (Offered Fall and Spring)

**150:034. Business Programming - 3 hrs.**

Study of a major business-oriented programming language, including language commands, syntax, and structure. Various applications of the language are introduced as solutions to specific business problems through programming exercises and assignments. Prerequisite(s): 150:080; one of the following - 150:032, 810:030, 810:035, 810:036, or 810:051. (Offered Fall and Spring)

**150:080. Introduction to Information Systems - 3 hrs.**

Introduction to management information systems. Includes introduction to hardware and data communication technology, software and data

## 150 Management

management, and business applications of the technology. (Offered Fall, Spring, and Summer)

### **150:100. Legal and Social Environment of Business - 3 hrs.**

Introduction to law and the judicial process, business ethics, government regulation of business; includes administrative, antitrust, discrimination, international, and product liability law. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **150:101. Business Law I - 3 hrs.**

Study of the common law of contracts and Article II of the Uniform Commercial Code. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **150:102. Business Law II - 2 hrs.**

Commercial paper, secured transactions, bankruptcy, partnerships, and corporations. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **150:104. Regulation Review - 3 hrs.**

Intensive study of business law and income tax. Designed to assist accounting students as they prepare for the regulation portion of the CPA examination. Prerequisite(s): 120:030; 120:031; 120:129; 120:130; 120:134; 150:101; 150:102; (150:201 may replace 150:101 and 150:102); junior standing or admission to the MAcc program. (Offered Spring)

### **150:105(g). Employment and Labor Law - 3 hrs.**

Legal and practical examination of employee selection, dismissal, discrimination, health and safety, labor relations and associated human resource management issues. Prerequisite(s): 150:100 or 150:101 or equivalent; junior standing. (Offered Fall and Spring)

### **150:112. Systems Analysis and Design - 3 hrs.**

Introduction to systems development life cycle with emphasis on structured tools and techniques for systems design and presentation of design specifications. Prerequisite(s): 150:032; junior standing. (Offered Spring)

### **150:113. Business Communication - 3 hrs.**

Introduction to communication skills expected in a general business environment, including interpersonal, group, presentational, electronic, non-verbal and written communication, as well as techniques for adjusting to the communication culture of U.S. business organizations. Prerequisite(s): 620:005 or 620:015; junior standing. (Offered Fall and Spring)

### **150:114(g). Communication Management - 3 hrs.**

Design and management of communication functions to support business strategies. Topics include work information flow, integrated communication functions, knowledge management, supply chain communication issues, organizational culture, and communication diversity. Prerequisite(s): 620:005 or 620:015; junior standing. (Variable)

### **150:116(g). Human Resource Development - 3 hrs.**

Focus on strategic, administrative aspects of human resource development (HRD). Use of HRD processes and programs, including skills and technical programs, to provide an applied perspective. Prerequisite(s): junior standing. (Offered Fall)

### **150:117. Field Experience in Business Teaching - 1 hr.**

Field experience for those seeking licensure to teach Business Education at the secondary and postsecondary level. Includes cooperative work in keyboarding at elementary level and second experience at middle school level. Offered on credit/no credit basis only. Prerequisite(s): 200:017; 200:030; 200:128; 200:148; 250:150 (Level II of Professional Education Sequence); junior standing. Corequisite(s): 150:191. (Offered Spring)

### **150:119(g). Leadership and Human Relations - 3 hrs.**

Study of leadership theories and practices for purpose of developing human resources within organizations. Provides opportunity to develop human relations skills. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **150:120. Database Management and Theory - 3 hrs.**

Study of database theory and design and strategic and organizational implications of data management, a comparative analysis of database models, and the use of a fourth generation relational database.

Prerequisite(s): 150:032; 150:034; 150:080; junior standing. Prerequisite(s) or corequisite(s): 150:112. (Offered Fall)

### **150:125. Information Systems Development - 3 hrs.**

Continuing study of the systems development life cycle with emphasis on the phases of detail specification, programming, testing, training, conversion and evaluation through an actual systems development project. Study of problems associated with managing the development of large business applications. Prerequisite(s): 150:032; 150:034; 150:080; 150:112; 150:120; junior standing. (Offered Spring)

### **150:127. Decision Support Systems - 3 hrs.**

Study of decision support systems and applications. Topics include decision making, modeling, and support; DSS development tools with particular emphasis on spreadsheet applications; and organizational and social implications of decision support systems. Prerequisite(s): 150:032; 150:034; 150:080; 150:112; 150:153; junior standing. (Offered Fall)

### **150:128. Advanced Business Programming Methods - 3 hrs.**

Study of advanced business programming methods, including markup languages, server-side and client-side scripting languages and/or object-oriented languages. Completion of several programming projects. Prerequisite(s): 150:032; 150:080; junior standing. (Offered Spring)

### **150:130(g). Training: Design and Delivery - 3 hrs.**

Focus on tactical design and delivery aspects of human resource development programs using skills and technical training programs to provide an applied perspective. Prerequisite(s): junior standing. (Offered Spring)

### **150:140. Management Information Systems Policy - 3 hrs.**

Examination of key issues in effective management of an organization's information services activity. Emphasis on planning and coordinating information systems development with the organization's strategic plan; awareness of and enhancement of information technology as a competitive tool. Prerequisite(s): 150:032; 150:034; 150:080; 150:112; junior standing. Prerequisite(s) or corequisite(s): 150:120. (Offered Fall)

### **150:145. Management Information Systems - 3 hrs.**

Role of information systems in supporting organizational goals; design and development of business applications with particular emphasis on using development tools; and the impact of information systems on the organization. May not be taken for credit by MIS majors. Prerequisite(s): 150:080 or equivalent; junior standing. (Offered Fall and Spring)

### **150:147. Information Center Operations - 1 hr.**

Exploration of information center services, information center management, and user support issues. Practical experience and development of skills in an information center environment providing hardware and software support services to other students and faculty. May be repeated for maximum of 3 hours. Prerequisite(s): 150:080; two of the following - 150:032, 150:034, 810:051, 810:053; junior standing; consent of instructor. (Variable)

### **150:153. Organizational Management - 3 hrs.**

Study of contemporary organizational concepts and issues and their practical implications for managerial behavior. Prerequisite(s): 2.20 cumulative UNI GPA or higher, or the equivalent; junior standing. (Offered Fall, Spring, and Summer)

### **150:154. Operations Management - 3 hrs.**

Principles of management of productive processes in both manufacturing and service industries. Topics include organizational structure, product selection, process design, capacity and location management, quality management, forecasting, inventory management, and job design. Prerequisite(s): 120:030; 120:031; 150:080; 800:072 or 800:092 or equivalent; 920:020; 920:070; junior standing. (Offered Fall, Spring, and Summer)

### **150:161. Supply Chain and Purchasing - 3 hrs.**

Examination of the integrative management process of purchasing, producing, supplying, and distributing goods and services. Prerequisite(s): 120:030; 120:031; 150:080; 150:153; 150:154; 800:072 or 800:092; 920:020; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)



**150:163. Managerial Problem Solving - 3 hrs.**

Effective thinking about organizational problems. Topics include critical thinking; problem identification, definition, and analysis; alternative generation and evaluation; negotiation; and design. Prerequisite(s): 150:153; junior standing. (Offered Fall and Spring)

**150:164. Quality and Process Improvement - 3 hrs.**

Management and improvement of product/service quality and organizational processes. Topics include quality management programs; total quality management; statistical process control; business process design; reengineering; benchmarking; and best practices research. Prerequisite(s): 120:030; 120:031; 150:080; 150:153; 150:154; 800:072 or 800:092 or equivalent; 920:020; 920:070; junior standing. (Offered Fall and Spring)

**150:165(g). Organizational Behavior - 3 hrs.**

Examination of micro and macro issues found within an organization including people, technology, environment, and structure. Prerequisite(s): 150:153; 800:072 or 800:092 or equivalent; 920:070; junior standing. (Offered Fall and Spring)

**150:166(g). Staffing - 3 hrs.**

Study and application of basic staffing practices and the processes of acquiring, orienting, evaluating, and terminating employees. Prerequisite(s): 150:153; junior standing. (Offered Fall)

**150:167(g). Strategic Supply Management - 3 hrs.**

Discussion of emerging issues in developing a supply chain and operations strategy for competitive success. Study of the roles of technology, quality, and integrative logistics, in the context of globalization of markets and procurement. Prerequisite(s): 120:030; 120:031; 130:101; 150:080; 150:153; 150:154; 800:072 or 800:092 or equivalent; 920:020; 920:053; 920:054; 920:070; junior standing. Prerequisite(s) or corequisite(s): 130:161; 150:161; 150:164. (Offered Spring)

**150:168(g). Compensation and Benefits - 3 hrs.**

Examination of the total compensation system including wage determination, salary structures, group rewards, and benefits. Prerequisite(s): 150:153; junior standing. Prerequisite(s) or corequisite(s): 150:166. (Offered Spring)

**150:169(g). Management Internship - 1-3 hrs.**

Uncompensated work experience in conjunction with an academic project conducted under faculty guidance. May be repeated for maximum of 6 hours. Offered on credit/no credit basis only. Prerequisite(s): 2.70 cumulative UNI GPA; junior standing; consent of department head. (Offered Fall, Spring, and Summer)

**150:170. Special Problems - 1-3 hrs.**

Credit determined at registration. Student will choose one of the following areas:

1. Management
2. Law
3. Business Teaching
4. International Business
5. Management Information Systems

May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; consent of instructor. (Offered Fall, Spring, and Summer)

**150:174(g). Ethics in Business - 3 hrs.**

Application of ethical principles and analytic methods to contemporary issues in business. Topics include moral responsibility of corporations and their regulation; economic policy, business practices, and social justice; rights and obligations of employers and employees; meaningful work, motivation, and the worker; affirmative action and reverse discrimination; environment and natural limits of capitalism. Prerequisite(s): junior standing. (Same as 640:174g and 650:174g) (Offered Fall and Spring)

**150:175. Business Policy and Strategy - 3 hrs.**

Study of strategy formulation and implementation processes. Focus on the application of integrative approaches to management through case analysis. For senior business majors. Prerequisite(s): completion of all

other courses in the *business core*; 120:030; 120:031; 130:101; 150:080; 150:100; 150:153; 150:154; 160:151; 800:072 or 800:092; 920:020; 920:053; 920:054; 920:070; senior standing. (Offered Fall, Spring, and Summer)

**150:179. Cooperative Education - 1-3 hrs.**

Compensated work experience in conjunction with an academic project conducted under faculty guidance. For majors only. May be repeated for maximum of 6 hours. Offered on credit/no credit basis only. Prerequisite(s): 2.70 cumulative UNI GPA; junior standing; consent of department head. (Offered Fall, Spring, and Summer)

**150:187. Organizational Design and Development - 3 hrs.**

Application of concepts presented in 150:153 and 150:165. Seminar and field-based experience in designing solutions to organizational design and development problems. Prerequisite(s): 150:153; 150:163; 150:165; 800:072 or 800:092 or equivalent; 920:070; junior standing. (Variable)

**150:189. Seminar in International Business - 3 hrs.**

Problems of organizing, financing, and operating multinational enterprises, and impact of multinational business upon a world economy. Prerequisite(s): 130:101; 150:153; 920:024 or 920:053; junior standing. (Offered Fall and Spring)

**150:190. Topics in Management Information Systems - 1-3 hrs.**

Current topics of interest from the field of management information systems. Offerings may include telecommunications, distributed information systems, expert systems, ergonomics, end-user computing. Prerequisite(s): 150:112; MIS major; junior standing. (Variable)

**150:191. Curriculum and Methods for Business Education - 3 hrs.**

Curriculum development, motivation, specific presentation methods, and evaluation as applied to business programs. Prerequisite(s): 200:017; 200:030; 200:128; 200:148; 250:150 (Level II of the Professional Education Sequence); junior standing. Corequisite(s): 150:117. (Offered Spring)

**150:201. Business Law for the Professional Accountant - 3 hrs.**

Topics necessary for accounting professionals including contracts, UCC, commercial paper, secured transactions, and bankruptcy. Prerequisite(s): admission to MAcc program. (Offered Fall)

**150:249. Management Information Systems Concepts - 3 hrs.**

Provides students with knowledge of the role of information systems within an organization; systems, information and decision theory; information systems applications including decision support; and systems evaluation and selection. Prerequisite(s): consent of MBA Director. (Offered MBA Module II - begins mid-November and ends mid-February)

**150:250. Strategic Planning and Organization Analysis - 3 hrs.**

Analysis of business organization, its environment, and the strategic planning function. Should be taken in first semester of study. Prerequisite(s): consent of MBA Director. (Offered MBA Module I - begins late August and ends mid-November)

**150:262. Strategic Management of Human Resources - 3 hrs.**

Principles of organizational behavior applied to managerial practices; strategic management of human resources to accomplish work and maximize organizational effectiveness. Prerequisite(s): 150:153 or equivalent; consent of MBA Director. (Offered MBA Module I - begins late August and ends mid-November)

**150:272. Cross-Functional Operations - 3 hrs.**

Analysis and design of business operational decisions in complex production and service environments. Prerequisite(s): consent of MBA Director. (Offered MBA Module III - begins mid-February and ends early May)

**150:274. Research and Analysis for Management Decisions - 3 hrs.**

Study of the tools and techniques for business research and data analysis. Emphasis on applying the tools and techniques to determine, define, and solve complex business problems and improve managerial decision making. Prerequisite(s): consent of MBA Director. (Offered MBA Module I - begins late August and ends mid-November)

**150:276. Business Capstone Experience - 1 hr.**

Analyze, solve, and present a solution to a complex, interdisciplinary

## 150 Management/160 Finance

business problem. Prerequisite(s): consent of MBA Director. (Offered MBA Module III - begins mid-February and ends early May)

### **150:280. Topics in Management - 1-3 hrs.**

Selected topics in management. May be repeated for maximum of 6 hours. Anticipated typical credit of 1 hour. Prerequisite(s): consent of MBA Director. (Offered MBA Modules I, II, and III)

### **150:285. Individual Readings - 1-3 hrs.**

Directed readings and reports. May be repeated for maximum of 4 hours. Prerequisite(s): consent of MBA Director. (Offered MBA Modules I, II, and III)

### **150:297. Practicum - 2 hrs.**

Prerequisite(s): consent of MBA Director. (Offered MBA Modules I, II, and III)

### **150:299. Research - 1-6 hrs.**

Prerequisite(s): consent of MBA Director. (Offered MBA Modules I, II, and III)

## 160 Finance

### **160:055. Personal Financial Planning and Asset Management - 3 hrs.**

Overview of fundamentals of financial planning and asset allocations with emphasis on diversification of risk. (Offered Fall and Spring)

### **160:140. Principles of Real Estate - 3 hrs.**

Introduction to nature of real estate, its investment value, and related decision analysis. Includes appraisal, investment analysis, location theory, financing, legal characteristics, and development. Not intended as pre-license course for sales personnel. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **160:141. Real Estate Finance - 3 hrs.**

Introduction to concepts, techniques, and instruments integral to the financing of real estate. Includes discussion of financial markets and institutions from which financing can be obtained. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:142. Real Estate Appraisal and Investment - 3 hrs.**

Introduction to techniques of appraising the value of real estate. Includes discussion of market approach, cost approach, income approach, and techniques of analyzing investment value of real estate. Prerequisite(s): 160:140; junior standing. (Offered Fall and Spring)

### **160:143. Real Estate Law and Brokerage - 3 hrs.**

Study of the law affecting real estate value, financing, conveyance, contractual obligations, and brokerage, including agency relationships. Prerequisite(s): 160:140; junior standing. (Offered Fall and Spring)

### **160:151(g). Corporation Finance - 3 hrs.**

Introductory course in corporation finance relating to the role of the finance function with the corporate enterprise. Graduate students completing this course will be required to complete a graded, written case covering financial management and capital budgeting. Prerequisite(s): 120:030; 120:031; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. Mathematics majors who have successfully completed 800:060 and 800:061 may enroll with the consent of department head. (Offered Fall, Spring, and Summer)

### **160:152(g). Principles of Investments - 3 hrs.**

Investment decision making, analysis, and management. Includes descriptive analysis of various investment media, techniques of value analysis, and basic topics in portfolio management. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall, Spring, and Summer)

### **160:153(g). Commercial Bank Management - 3 hrs.**

Study of major decisions and policies involved in management of commercial banks in the context of asset/liability management. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:154. Financial Information Systems and Analysis - 3 hrs.**

Study of financial information systems (IS) from perspective of financial decision makers. Topics include information economics, information value and business performance, and financial analysis. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Variable)

### **160:156(g). Topics in Financial Management - 3 hrs.**

Examination of various aspects of financial management through discussions of specific topics. May be repeated only in different section. Prerequisite(s): 120:030; 120:031; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing; plus the following prerequisites for the particular section:

Sec. 1: Advanced Cases. Prerequisite(s): C- or better in 160:151; 160:171.

Sec. 2: Security Analysis. Prerequisite(s): C- or better in 160:151; 160:152.

Sec. 3: Options/Futures. Prerequisite(s): C- or better in 160:151; 160:152.

Sec. 4: Working Capital. Prerequisite(s): C- or better in 160:151; 160:171. (Section 2 offered Spring; section 3 offered Fall; sections 1 and 4 variable)

### **160:157(g). Fixed Income Analysis - 3 hrs.**

Principles and tools used to value fixed income securities and manage the risk of bond portfolios. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 160:152; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:158(g). International Financial Management - 3 hrs.**

Study of financial decision making in an international context. Topics include financing international trade, management of foreign exchange risk, investment analysis, working capital management, and international taxation. Case study approach. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:161. Intermediate Financial Management - 3 hrs.**

Examination of the tools, concepts, and theories of financial management. Topics include working capital management, capital budgeting, financial theory, and financial modeling. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:162. Risk Management and Insurance - 3 hrs.**

Fundamentals of risk and insurance as they apply to financial management. Prerequisite(s): junior standing. (Variable)

### **160:163. Insurance Company Operations - 3 hrs.**

In-depth study of management issues unique to insurance operations and companies from a functional perspective. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Variable)

### **160:170. Special Problems - 1-3 hrs.**

Credit determined at registration. Prerequisite(s): junior standing; consent of department head. (Variable)

### **160:171. Advanced Financial Management - 3 hrs.**

In-depth examination of the tools, concepts, and theories of financial management. Topics include working capital management, capital budgeting, financial theory, and various appropriate analytical tools. Prerequisite(s): 120:030; 120:031; C- or better in 160:151; 160:161; 800:072 or 800:092; 920:053; 920:054; 920:070; junior standing. (Offered Fall and Spring)

### **160:179. Cooperative Education in Finance - 1-3 hrs.**

Compensated work experience in conjunction with an academic project conducted under faculty guidance. Offered on credit/no credit basis only. Prerequisite(s): 3.00 cumulative UNI GPA; consent of department head. (Offered Fall, Spring, and Summer)

### **160:266. Financial Management and Markets - 3 hrs.**

In-depth examination of tools, concepts, theories, and analysis of managerial finance integrated with case applications. Students expected to ap-

ply concepts from managerial finance in analyzing, presenting, and discussing cases at an advanced level. Prerequisite(s): 160:151 or equivalent; consent of MBA Director. (Offered Spring)

**160:280. Topics in Finance - 1-3 hrs.**

In-depth examination of various aspects of financial management through discussions of specific topics in finance. Integration of financial theory and case analysis with advanced finance topics. May be repeated for maximum of 6 hours. Anticipated typical credit of 1 hour. Prerequisite(s): consent of MBA Director. (Variable)

**160:285. Individual Readings - 1-3 hrs.**

Directed readings and reports. Prerequisite(s): consent of MBA Director. (Variable)

**160:297. Practicum - 2 hrs.**

Prerequisite(s): consent of MBA Director. (Variable)

**160:299. Research - 1-6 hrs.**

Prerequisite(s): consent of MBA Director. (Variable)

## **170 Postsecondary Education: Student Affairs**

**170:050. Career Decision Making - 2 hrs.**

Introduction to a structured career decision-making process, including self-awareness, career and educational information, computerized and internet assistance and resources, and related activities/projects. (Offered Fall and Spring)

**170:055. Strategies for Academic Success - 2 hrs.**

Provides development and use of effective learning and study strategies/skills necessary for independent learning and academic success. University policies, procedures, and services will be addressed. (Offered Fall and Spring)

**170:218. Organization and Governance of Postsecondary Education - 3 hrs.**

Introduction to the organization and administration of institutions that conduct postsecondary education including two- and four-year colleges and universities. Emphasis on organizational theory and behavior and use of case studies to illuminate the multifaceted mission and operation of these organizations. (Offered Fall)

**170:222. Communication and Leadership in Postsecondary Education - 3 hrs.**

Broad overview of communication, counseling and advising theory and their application to leadership in the postsecondary setting. Emphasis on developing individual communication skills for the various professional roles found in postsecondary education. Prerequisite(s): graduate standing. (Offered Fall)

**170:230. Postsecondary Curriculum and Assessment - 3 hrs.**

Study of relationships between key elements of academic planning and student learning at course, program, and institutional levels. Investigation of issues affecting, perspectives on, and models for curricular and assessment decision making. (Offered Spring)

**170:231. Assessment in Postsecondary Education - 3 hrs.**

Examination of topics related to assessment in postsecondary education including benchmarking, program evaluation, student learning and developmental outcomes, student needs, student satisfaction, and campus culture. Prerequisite(s): 250:205. (Offered Spring)

**170:250. Teaching in College - 3 hrs.**

Examination of issues and problems in college teaching including roles of the college teacher, factors affecting teaching and learning environment, learning theory, course planning, and teaching strategies. (Offered Fall and Spring)

**170:252. Current Issues in Higher Education - 3 hrs.**

Organized around the major issues confronting community colleges, senior colleges, and universities in contemporary society. (Variable)

**170:256. The Two-Year College - 3 hrs.**

Provides an understanding of the mission, governance, operation, and student and faculty issues unique to the two-year college in the United States, with particular attention to Iowa. (Offered Spring and Summer)

**170:260. History and Philosophy of Higher Education - 3 hrs.**

Overview of the historical development, issues, philosophies, and cultural backgrounds of higher education in America. (Offered Fall)

**170:264. Introduction to Student Affairs - 3 hrs.**

Introduction to the field of college/university student services with applications of theory to practice. (Offered Fall)

**170:266. Administration of Student Affairs - 3 hrs.**

Provides the knowledge and develops the skills essential to effective administration of student affairs staff and services, i.e., professional development, strategic planning, budgeting and finance, human resource management, policy and legal issues, and technology and change. Prerequisite(s): 170:218; 170:264. (Offered Fall)

**170:270. College Student Development - 3 hrs.**

Addresses student development theories (moral, ethical, intellectual, and psychosocial), and their application in student affairs settings. (Offered Spring)

**170:285. Readings in Postsecondary Education. (Variable)**

**170:289. Seminar in Postsecondary Education. (Variable)**

**170:290. Practicum in Postsecondary Education - 3 hrs.**

Orientation and experience for Student Affairs majors in a professional setting. Offered on credit/no credit basis only. May be repeated for maximum of 6 hours. (Variable)

**170:291. Internship in Postsecondary Education - 3-6 hrs.**

Supervised substantive experience in a postsecondary setting. (Variable)

**170:299. Research. (Variable)**

**170:310. Organizational Processes and Communication - 3 hrs.**

Organizational development in the school setting. Examination of organizational and communication models and processes with emphasis on interaction patterns, interpersonal relations and interpersonal influence. No credit if credit in 270:308. Prerequisite(s): doctoral status or consent of department. (Variable)

**170:311. Educational Leadership and Systems Change - 3 hrs.**

Examination of knowledge base for both change and leadership. Emphasis on understanding how change factors and leadership styles interact to influence receptiveness to and acceptance of change. Prerequisite(s): doctoral status or consent of college. (Same as 270:311) (Variable)

**170:389. Seminar in Postsecondary Education - 1-3 hrs.**

Special topics as indicated in the schedule of classes. Prerequisite(s): consent of instructor. (Variable)

**170:391. Internship in Postsecondary Education - 1-3 hrs.**

Supervised advanced experience in a postsecondary setting. Prerequisite(s): consent of instructor. (Variable)

**170:397. Practicum: Postsecondary Education - 1-3 hrs.**

Advanced orientation and experience for Student Affairs majors in a professional setting. Offered on credit/no credit basis only. May be repeated for maximum of 6 hours. Prerequisite(s): consent of instructor. (Variable)

## **190 Education, Interdepartmental**

**190:301. Context of Contemporary Education - 3 hrs.**

Examination of issues and problems of concern to educational practitioners from the perspective of educational philosophy, history, and sociology. Prerequisite(s): doctoral status or consent of college. (Variable)

**190:303. Inquiry - 3 hrs.**

Introduction to the major philosophical schools of thought that underpin

## 190 Education, Interdepartmental/200 Educational Psychology

the practice of social and educational inquiry. Includes empiricism, critical theory, hermeneutics, and constructivism perspectives. Prerequisite(s): doctoral status or consent of college. (Variable)

### **190:305. Qualitative Methods in Educational Research - 3 hrs.**

Study of the techniques of direct observation and analysis of human behavior in ongoing, naturalistic settings. Focus on problems associated with the two main approaches used in qualitative research - participant observation and in-depth interviewing. Prerequisite(s): 190:303. (Variable)

### **190:307. Quantitative Methods in Educational Research - 3 hrs.**

Quantitative research approaches applicable to problem-solving in educational practice. Major methods including experiment, quasi-experiment, and survey; major forms of instrumentation; frequently used quantitative analyses, both descriptive and inferential; report and proposal writing. Prerequisite(s): 190:303; 250:205; an upper-division course in statistical methods; doctoral status or consent of college. (Variable)

### **190:389. Doctoral Seminar.**

Credit/no credit only. (Offered Fall and Spring)

### **190:399. Dissertation Research.**

Credit/no credit only. Initial enrollment requires attendance at doctoral research seminar. (Offered Fall and Spring)

## 200 Educational Psychology

### **200:017. Field Experience: Exploring Teaching - 1 hr.**

Direct and indirect experiences in the ways schools function, roles and responsibilities of teachers, and student behavior. Offered on credit/no credit basis only. Corequisite(s): 200:030. (Offered Fall, Spring, and Summer)

### **200:030. Dynamics of Human Development - 3 hrs.**

Introduction to behavioral characteristics of individual development; basic developmental principles, age-stage characteristics; and provisions community, family, and school make in the development of children and youth. Prerequisite(s): sophomore standing. Corequisite(s): 200:017 (Offered Fall, Spring, and Summer)

### **200:109(g). Development and Assessment of Young Children - 3 hrs.**

In-depth study of children's development and its assessment from birth through grade three. Emphasis on examining developmental differences among individual children and implications for developmentally and individually appropriate classroom practice. Prerequisite(s): 200:030 or equivalent or consent of instructor; junior standing. (Offered Fall, Spring, and Summer)

### **200:116(g). Psychology of Adolescence - 2 hrs.**

Psychological concepts applied to adolescent intellectual, physical, and psychosocial behaviors; designed to improve understanding of, and relationships with, adolescents and their search for identity. Prerequisite(s): 200:030 or equivalent; junior standing. (Offered Fall, Spring, and Summer)

### **200:118(g). Mental Health in the Classroom - 3 hrs.**

Basic principles of mental health as they apply to the entirety of the educative enterprise. Focus on causative factors relating to the mental health of teachers and students, and ways of arranging classroom environments which maximize learning and minimize threat and self devaluation. Prerequisite(s): 200:030 or equivalent; junior standing. (Variable)

### **200:128. Field Experience: Teacher as Change Agent - 1 hr.**

Direct experiences to increase understanding of learning process and apply skills for facilitating the process; may include motivation, classroom management, and teaching strategies. Offered on credit/no credit basis only. Prerequisite(s): 200:017; 200:030; or equivalents. Corequisite(s): 200:148; 250:150. (Offered Fall, Spring, and Summer)

### **200:139(g). Psychology of Personality, Education - 3 hrs.**

Thorough investigation of the dynamics of personality, with emphasis on the principles of normal personality structure. Designed for those who seek an understanding of the structure, development, and function of

personality. Prerequisite: junior standing. (Offered Fall and Spring)

### **200:140(g). Social Psychology, Education - 3 hrs.**

Intensive study of the behavior of man as affected by, and when interacting in, groups. Areas of discussion include prejudice, propaganda, anti-intellectualism, leadership, social perception, group dynamics, game theory, and student protest. Prerequisite(s): junior standing. (Offered Spring)

### **200:148. Learning and Instruction in Classroom Contexts - 3 hrs.**

Examination of the influence of cognitive, motivational, and sociocultural factors on students' learning in classroom contexts, with an emphasis on implications for classroom instruction and improved student achievement. Application of course concepts to the corequisite field experience. Prerequisite(s): 200:017; 200:030; or equivalents. Corequisite(s): 200:128. Prerequisite(s) or corequisite(s): 250:150. (Offered Fall, Spring, and Summer)

### **200:151(g). Current Approaches to Classroom Discipline - 3 hrs.**

Strategies and processes designed to improve and maintain classroom control which also preserve and enhance atmospheres leading to increased student academic and personal development. Prerequisite(s): 200:030; 200:148; or equivalents; junior standing. (Offered Fall and Spring)

### **200:152(g). Development of the Middle School Aged Child - 3 hrs.**

Focus on the cognitive, physical, social and emotional development of the middle school aged child (ages 11 to 15). Examination of the contexts of the middle school child including the home, school, and peers. Prerequisite(s): junior standing. (Variable)

### **200:170(g). Psychology of Learning Disabilities - 3 hrs.**

Current theories and practices in learning disabilities with emphasis on the foundations of the field, assessment practices, and specific learning disorders. Prerequisite(s): 200:148 and 250:150 or equivalent; junior standing. (Variable)

### **200:173(g). Behavior Disorders in Children - 3 hrs.**

Problems of children who deviate from the norm in behavior and adjustment, including deviations which are organic as well as those which are functional in nature. Observations of clinical procedures. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **200:176(g). Learning and Behavioral Problems in Education - 3 hrs.**

Learning and behavior problems of students with focus on issues of identification, etiology, assessment, developmental changes, and intervention including consideration of personal, social, cultural, historical, and economic contexts. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **200:180(g). Community Service: Academic Skills Achievement Center - 2 hrs.**

Tutorial experience in multicultural school setting. Collateral seminar for sharing personal insights and discussion of core readings on cultural pluralism. May be repeated once for credit. Prerequisite(s): junior standing or consent of department head. (Offered Fall and Spring)

### **200:188(g). Current Approaches to Multicultural Education - 3 hrs.**

Comparison of alternative models of multicultural education and study of their application in school settings. Prerequisite(s): junior standing. (Offered Fall)

### **200:198. Independent Study.**

(Variable)

### **200:214. Foundations of Instructional Psychology - 3 hrs.**

Study of factors involved in designing and implementing effective instructional environments. (Offered Fall, Spring, and Summer)

### **200:220. Educational Psychology: Classroom Strategies - 3 hrs.**

Selected instructional strategies which are extensions of contemporary learning theory that create effective teaching-learning environments. Prerequisite(s): 200:214 or consent of department. (Offered Fall)

### **200:224. Adult Development and Learning - 3 hrs.**

Overview of individual development from young adulthood through middle adulthood. Emphasis is breadth and range of individual growth

and development during the adult years. Focus on psychological issues associated with social, emotional, and cognitive development, and adult learning and teaching. (Variable)

**200:232. Risk and Resilience: Child, Family, School and Community Factors - 3 hrs.**

Examination of children's cognitive and psychosocial development within family, school and community contexts, socio-historical factors which impact children, families, schools and communities, and implications for elementary school curricula and pedagogy. (Offered Summer)

**200:235. Theories of Human Development - 3 hrs.**

Major theories of human development (e.g., psychoanalytic, cognitive, developmental, humanistic, and social learning theory). Includes study of noted theorists in each area and educational implications and applications of their work. Prerequisite(s): 200:109 or 200:116. (Variable)

**200:240. Introduction to School Psychology - 3 hrs.**

Psychological services in schools; roles and functions of school psychologists; review of professional, legal and ethical standards and implications for practice. (Variable)

**200:280. Psychological Consultation in Schools - 3 hrs.**

Overview of major theoretical models of consultation (including systems level consultation), an in-depth opportunity to develop behavioral consultation and intervention skills through an authentic referral, and an emphasis on professional accountability through monitoring the effects of intervention. (Offered Fall)

**200:285. Readings.**

(Offered Fall and Spring)

**200:289. Seminar in Education and Psychology - 1-6 hrs.**

Prerequisite(s): consent of instructor. (Variable)

**200:290. Practicum in Education and Psychology - 1-6 hrs.**

Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**200:291. Internship in School Psychology - 1-6 hrs.**

Supervised off-campus field experience. (Offered Fall and Spring)

**200:299. Research.**

(Offered Fall and Spring)

**200:302. Contemporary Instructional Practices - 3 hrs.**

Overview of research knowledge base regarding effective instructional practices and their interrelationship in effective schools. Prerequisite(s): 200:214; doctoral status or consent of college. (Variable)

## 210 Elementary, Early Childhood and Middle Level Education

**210:120. Elementary Classroom Management - 3 hrs.**

Focus on skills needed to plan, organize, manage, implement, and evaluate appropriate instruction in the elementary classroom. Prerequisite(s): 210:150 or 210:152. Corequisite(s): 210:161; 210:164; 230:116; 800:134. (Offered Fall, Spring, and Summer)

**210:121(g). Infant and Toddler Care and Education - 3 hrs.**

Study of care and education of the very young child. Examination of important strategies and techniques for working with infants and toddlers. Prerequisite(s): 200:109; junior standing. (Offered Fall, Spring, and Summer)

**210:122. Middle Level Classroom Management - 3 hrs.**

Middle level/junior high school classroom organization and behavior management compatible with the developmental characteristics of young adolescents. Prerequisite(s): 210:150 or 210:152. Corequisite(s): for Elementary/Middle Level Education Dual Majors: 210:161; 210:164; 230:116; 800:134. (Offered Fall and Spring)

**210:123(g). Expressive Arts in the Elementary School - 3 hrs.**

Integration of the creative arts: art, music, drama, and media as utilized for strengthening and enriching content across the curriculum of the elementary classroom. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

**210:130(g). Guidance and Instruction in Early Childhood Education - 3 hrs.**

Discussion of the role of the teacher in guiding young children in their learning activities. Emphasis on planning and implementing early childhood programs. Prerequisite(s): 210:151; junior standing. Corequisite(s): 210:192. (Offered Fall and Spring)

**210:135(g). Middle Level Socialization and Instructional Strategies - 3 hrs.**

Instructional strategies and resources for addressing the social, emotional, physical, and intellectual needs of young adolescents in the middle level/junior high school classroom. Prerequisite(s): 200:148; 200:152; junior standing. Prerequisite(s) or corequisite(s): 210:150 or equivalent. (Offered Fall and Spring)

**210:141(g). Integrated Activities in Elementary School Science and Mathematics - 3 hrs.**

Activity based on pedagogical investigation of manipulative materials and activities used in elementary science and mathematics followed by critical analysis using task analysis and research investigations. Prerequisite(s): 800:134 or equivalent; junior standing. (Offered Spring)

**210:142(g). Applications in Elementary Science Teaching - 3 hrs.**

Resources, content background and materials in elementary science with emphasis on applications. Special attention to integrating theory and practice with techniques, materials, and equipment. Stresses interrelations between the various sciences and application of skill subjects. Prerequisite(s): junior standing. (Variable)

**210:143(g). Applications in Elementary Social Studies Teaching - 3 hrs.**

Applying knowledge of current trends, resources, and content as a means of developing, enriching, and expanding the social studies curriculum. Prerequisite(s): 210:164; junior standing. (Offered Fall)

**210:149(g). Child, Family, School and Community Relationships - 3 hrs.**

Procedures for developing home-community-school relationships to promote the education of each child in reaching her/his maximum potential. Emphasis on preschool-kindergarten level. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

**210:150(g). Middle Level Curriculum - 3 hrs.**

Teaching strategies, instructional resources, and school organization designed specifically for meeting the unique needs of young adolescents in the middle level/junior high school setting. Prerequisite(s): 200:152; completion of Level I of the Professional Education Requirements; junior standing. Prerequisite(s) or corequisite(s): Level II of the Professional Education Requirements. (Offered Fall and Spring)

**210:151(g). Early Childhood Curriculum Development and Organization - 3 hrs.**

Current trends in curriculum for preschool and primary children. Prerequisite(s): completion of Level I of the Professional Education Requirements - Early Childhood Education; junior standing. Prerequisite(s) or corequisite(s): Level II of the Professional Education Requirements. (Offered Fall, Spring, and Summer)

**210:152(g). Elementary Curriculum - 3 hrs.**

Recent trends in the curriculum for children in grades K-6. Prerequisite(s): completion of Level I of the Professional Education Requirements - Elementary Education; junior standing. Prerequisite(s) or corequisite(s): Level II of the Professional Education Requirements. (Offered Fall, Spring, and Summer)

**210:155(g). Constructivist Early Education - 3 hrs.**

Overview of theory and practice in constructivist early childhood education. Survey of sociomoral atmosphere (including group time, rule making, voting, social and moral discussion, academics, etc.), physical knowledge activities, group games, and classroom management. Prerequisite(s): junior standing. (Variable)

**210:161. Teaching Elementary School Science - 3 hrs.**

Investigation of current textbook series, trends, teaching materials,

## 210 Elementary, Early Childhood and Middle Level Education/220 Special Education

and appropriate instructional strategies for contemporary elementary school science programs. Prerequisite(s): 210:150 or 210:151 or 210:152. Corequisite(s): 210:120 or 210:122; 210:164; 230:116; 800:134. (Offered Fall, Spring, and Summer)

### **210:164. Teaching Elementary School Social Studies - 3 hrs.**

Basic methods and materials for teaching the knowledge, skills, attitudes and values in social studies. Prerequisite(s): 210:150 or 210:151 or 210:152. Corequisite(s): 210:120 or 210:122; 210:161; 230:116; 800:134. (Offered Fall, Spring, and Summer)

### **210:192(g). Experience - 2-4 hrs.**

May be offered in various specialized fields as indicated in Schedule of Classes, but may be taken only twice for credit in the same area. Prerequisite(s): successful completion of 200:017 and 200:128; junior standing. Corequisite(s): 210:130. (Offered Fall and Spring)

### **210:201. Issues and Trends in Curriculum - 3 hrs.**

Current ideas influencing the planning and implementation of curriculum. Prerequisite(s): consent of department. (Variable)

### **210:204. Curriculum Construction - 3 hrs.**

Role of the classroom teacher in curriculum development projects, focusing on educational change process, procedures, and product evaluation. Prerequisite(s): 210:201 or consent of the head of the Department of Curriculum and Instruction. (Variable)

### **210:214. Recent Research in Early Childhood Education - 3 hrs.**

Review of implications of research to gain techniques for improving instruction and programs for young children. Prerequisite(s): 210:151 or equivalent. (Offered Spring)

### **210:220. Administration and Supervision of Programs for Young Children - 3 hrs.**

Preparation to plan, organize, and operate public and private programs for young children, including working with families and with other social agencies, obtaining and administering funds, staffing, providing for health and safety, and curriculum decisions. (Variable)

### **210:221. Analysis and Design of Curriculum for Young Children - 3 hrs.**

Basic assumptions underlying curriculum for young children to prepare students to improve teaching practices, and provide direction to future decision making on programs and materials. (Offered Summer)

### **210:225. Advanced Constructivist Education - 3 hrs.**

Study of theory, research, and curriculum in constructivist education. Selected theoretical topics. Prerequisite(s): 210:155; 210:221. (Offered Fall)

### **210:228. Comparative Early Childhood Curricula - 2 hrs.**

Comparative study of curricula and programs of early education including the Montessori Method, Bank Street theory and practice, and various programs based on Piagetian theory. Prerequisite(s): 210:155; 210:221. (Variable)

### **210:230. Advanced Techniques in Instructional Management - 3 hrs.**

Data-driven applications of skills, methods and strategies for improved personal and systemic professional practices in elementary and middle level classrooms. Preventive, supportive, corrective, adaptive management techniques for meeting the needs of diverse learners. Prerequisite(s): 210:201 or consent of the head of the Department of Curriculum and Instruction. (Variable)

### **210:242. Analysis and Improvement of Science Instruction in the Elementary School - 3 hrs.**

Application of developmental psychology to the scope and depth of science instruction; analysis of strengths and weaknesses of alternative science programs including initial and subsequent costs, facility requirements, and implementation difficulties. Prerequisite(s): 210:142 or 210:152 or consent of department. (Variable)

### **210:243. Analysis and Improvement of Social Studies Instruction in the Elementary School - 3 hrs.**

Assists teacher in exploring historical and current practices in social

studies to create new approaches by using available resources and ideas. Prerequisite(s): 210:143 or 210:152 or consent of department. (Variable)

### **210:254. The Gifted and Talented - 3 hrs.**

Educational needs of gifted and talented children and youth. Emphasis on characteristics, identification/assessment, special populations, counseling, parenting, and program intervention. (Variable)

### **210:255. Educational Strategies for Gifted and Talented - 3 hrs.**

Current trends in educational programming for the gifted and talented. Prescription, implementation, and evaluation of differentiated curriculum/educational strategies used in the comprehensive program. Prerequisite(s): 210:254 or consent of instructor. (Variable)

### **210:257. Coordinating Programs for the Gifted and Talented - 3 hrs.**

Methods/procedures for coordinating/directing school district PK-12 programs for the gifted and talented. Emphasis on program planning, management, supervision, and evaluation. Prerequisite(s): 210:254; 210:255; or consent of instructor. (Variable)

### **210:270. Recent Developments in Middle Level Curriculum - 3 hrs.**

Recent developments regarding curricular decision making, organizational structures, and instructional strategies appropriate for middle and junior high schools based on the developmental characteristics of young adolescents. (Variable)

### **210:285. Readings in Education - 1-3 hrs.**

(Offered Fall, Spring, and Summer)

### **210:289. Seminar in Education - 2 hrs.**

Special topics listed in Schedule of Classes. (Offered Fall, Spring, and Summer)

### **210:297. Practicum - 2-3 hrs.**

(Offered Fall, Spring, and Summer)

### **210:299. Research - 1-6 hrs.**

(Offered Fall, Spring, and Summer)

### **210:352. Curriculum Theory and Development - 3 hrs.**

Assists the advanced graduate student in viewing, analyzing, and interpreting the curriculum and instruction program of an educational institution and in developing skills for implementing change. (Variable)

### **210:354. Curriculum Implementation and Evaluation - 3 hrs.**

Exploration of systems for program evaluation and revision and the dynamics of change processes. (Variable)

### **210:389. Seminar in Curriculum and Instruction - 3 hrs.**

Intensive study and seminar presentations of current issues, trends, procedures, and obstacles to change in curriculum and instructional practice. May be repeated. Prerequisite(s): doctoral status or consent of department. (Variable)

### **210:397. Practicum in Curriculum and Instruction - 2-4 hrs.**

Supervised practice in working as a co-facilitator and/or as a facilitator in program evaluation and revision and/or instructional design and improvement in an educational setting. May be repeated for a maximum of 4 hours. Prerequisite(s): 210:352; consent of instructor. (Offered Fall, Spring, and Summer)

## 220 Special Education

### **220:050. Introduction to Exceptional Persons - 3 hrs.**

Overview of the field of Special Education including historical perspective, characteristics, programs, and legal provisions. (Offered Fall and Spring)

### **220:124(g). Teaching Students Who are Visually Impaired with Additional Disabilities - 2 hrs.**

Focus on the educational needs and learning styles of students who are visually impaired with additional disabilities. Covers the need for functional assessment and teaching adaptations to improve students' inclusive learning. Provides hands-on experience and identifies available resources to enhance the quality of education for visually impaired students. Prerequisite(s): 220:126; 220:132; 220:134; junior standing. (Variable)

**220:126(g). Braille Learning and Tactile Communication I - 3 hrs.**

Addresses issues in braille learning, literacy codes, and other methods of preparing braille materials along within instructional methods and strategies. Prerequisite(s): junior standing. (Variable)

**220:127(g). Braille Learning and Tactile Communication II - 3 hrs.**

Provides students with advanced skills in nemeth code, music braille, and computer braille. Covers the use of the abacus for math instruction, as well as computer-facilitated braille production. Prerequisite(s): 220:126; 220:132; 220:134; junior standing. (Variable)

**220:130(g). Assistive Technology for Students with Visual Impairments - 2 hrs.**

Concentrates on the assessment of assistive technology needs of persons with visual impairments. Explores the latest technology and discusses development and types of software and hardware. Exposes students to teaching curricula and adaptations applied for students with visual impairments. Prerequisite(s): 220:126; 220:132; 220:134; junior standing. (Variable)

**220:132(g). Introduction to Visual Impairments - 3 hrs.**

Overview of the field of visual impairments including types of services, placements, and instructional strategies along with legal, demographic, psychological, and historical perspectives of education for students with visual impairments. Hands-on experience through demonstration and simulation provides student with understanding and knowledge of educating students with visual impairments. Covers educational implications of students who are blind, as well as those who have low vision. Prerequisite(s): junior standing. (Variable)

**220:134(g). Foundations of Orientation and Mobility - 3 hrs.**

Focus on theory and learning of basic orientation and mobility skills and techniques by students with visual impairments. Students will gain understanding and knowledge about practical methods used for concept development, orientation skills, basic travel skills and techniques, and safe travel. Covers sighted guide techniques, electronic travel aids, and introduction to cane travel. Prerequisite(s): junior standing. (Variable)

**220:136(g). Methods of Teaching Students with Visual Impairments - 3 hrs.**

Covers assessment issues of students with visual impairments and instructional strategies applicable to students with visual impairments in all subject areas. Focus on expanded core curriculum for students with visual impairments. In conjunction with student teaching, provides students with opportunity to apply learned methods to teach students with visual impairments and assessment and instruction needs in real-life situations. Prerequisite(s): 220:126; 220:132; 220:134; junior standing. (Variable)

**220:138(g). Anatomy of the Eye and Educational Implications of Low Vision - 3 hrs.**

Focus on basic structure of the eye and the visual system. Evaluation of the educational needs of specific visual disabilities along with assessment instruments and techniques, including discussion of functional vision assessment. Other topics include research in technology relevant to reading and writing with optical and non-optical devices, psycho-social implications of low vision conditions, curricular materials appropriate for students with low vision, and interpretation of ocular reports presented for specific visual disabilities. Prerequisite(s): 220:126; 220:132; 220:134; junior standing. (Variable)

**220:140(g). Services to Families with Infants and Toddlers with Disabilities - 3 hrs.**

Working with families of infants and toddlers with disabilities. Prerequisite(s): 220:150; junior standing. Corequisite(s): 220:192. (Offered Fall)

**220:141(g). Including Young Children with Special Needs Into the General Education Programs - 3 hrs.**

Advanced best practices for educating young children with diverse learning needs in the general education classroom. Prerequisite(s): 220:150;

220:192 (tutorial); junior standing. Corequisite(s): 220:192. (Offered Fall and Spring)

**220:142(g). Classroom Instructional Management for Students with Disabilities (K-8) - 3 hrs.**

Designed to develop the instructional and behavioral management competencies required to teach K-8 students with disabilities. Prerequisite(s): 220:150; junior standing. Corequisite(s): 220:192. (Offered Fall and Spring)

**220:143(g). Classroom Instructional Management for Students with Disabilities (5-12) - 3 hrs.**

Designed to develop the instructional and behavioral management competencies required to teach students in grades 5-12 with disabilities. Prerequisite(s): 220:150; junior standing. Corequisite(s): 220:192. (Offered Spring)

**220:146(g). Methodology and Assessment for Students with Mild/Moderate Disabilities (K-8) - 3 hrs.**

Deals with pragmatic knowledge about assessment, methodologies, techniques, and technology related specifically for group instruction of K-8 students with mild/moderate disabilities. Prerequisite(s): 220:174; junior standing. Corequisite(s): 220:192. (Offered Fall and Spring)

**220:147(g). Methodology and Assessment for Students with Mild/Moderate Disabilities (5-12) - 3 hrs.**

Deals with pragmatic knowledge about assessment, methodologies, techniques, and technology related specifically for group instruction of students in grades 5-12 with mild/moderate disabilities. Prerequisite(s): 220:174; junior standing. Corequisite(s): 220:192. (Offered Fall)

**220:150. Meeting the Needs of Diverse Learners in Classrooms - 2 hrs.**

Introduction to pedagogical, curricular, and social considerations involved in educating diverse learners in the general education classroom. Prerequisite(s): 200:030. (Offered Fall and Spring)

**220:151(g). Vocational and Transition Programming for Individuals with Disabilities - 3 hrs.**

Development and implementation of work experience and other vocational programs for adolescents and adults with disabilities. Overview of the transition planning process and resources. Prerequisite(s): 220:174; junior standing. (Offered Fall)

**220:152(g). Community Resources for Special Education - 3 hrs.**

Study of cooperation and coordination of the school and other agencies serving persons with disabilities, including various programs and services provided by governmental and private organizations. Prerequisite(s): 220:050 or 220:150; junior standing; consent of instructor. (Variable)

**220:153(g). Introduction to Assistive Technology for Instruction - 3 hrs.**

Designed to familiarize current and future educators in related exceptional education service personnel with educational and assistive technologies (AT) used to support individuals with a range of exceptional education needs. Provides information regarding legal aspects of AT and an orienting framework for evaluating the need for and success of AT. Prerequisite(s): 220:150; junior standing. (Offered Spring)

**220:167(g). Current Issues in the Education of Students with Severe Disabilities - 2 hrs.**

Current issues in the education of students with severe disabilities, including historical context, etiology, and impact on the children and family. Prerequisite(s): 220:050 or 220:150; junior standing. (Offered Fall)

**220:170(g). Educational Management in Special Education - 3 hrs.**

Individual behavior management, behavioral change strategies, and classroom management for students with special needs. Prerequisite(s): 220:050; junior standing. Corequisite(s): 220:174; 220:192. (Offered Fall and Spring)

**220:174(g). Assessment and Instruction for Students with Mild Disabilities - 3 hrs.**

Collection and use of educational data to assess and teach students with diverse learning needs, educational planning, material adaptation,

## 220 Special Education/230 Literacy Education

and curriculum development. Prerequisite(s): 220:150; junior standing. Corequisite(s): 220:170; 220:192. (Offered Fall and Spring)

### **220:183(g). Teaching Secondary-Level Students with Severe Disabilities - 3 hrs.**

Instructional methods, materials, and assessment for secondary-level students with severe disabilities; emphasis on strategies to support students within the inclusive classroom and promote transition. Prerequisite(s): 220:167; 220:174; junior standing. Corequisite(s): 220:192 or consent of instructor. (Offered Fall)

### **220:184(g). Professional Interdisciplinary Relationships in Special Education I - 3 hrs.**

Development of professional behaviors characterized by positive personal interaction with others and effective team skills. Strategies for collaborating with parents, regular and special educators, paraprofessionals, and other individuals in the educational program. Prerequisite(s): 220:050 or 220:150; junior standing. (Offered Fall and Spring)

### **220:185(g). Readings in Special Education - 1-2 hrs.**

Reading and discussion of current methodological developments and innovations in special education. May be repeated once for maximum of 2 hours. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **220:187(g). Teaching Elementary School Students with Severe Disabilities - 3 hrs.**

Instructional methods, materials, and assessment for students with severe disabilities in the inclusive classroom. Emphasis on strategies for supporting students with significant needs in the general education classroom. Prerequisite(s): 220:167 or consent of instructor; junior standing. Corequisite(s): 220:192 or consent of instructor. (Offered Spring)

### **220:192(g). Experience in Special Education - 3 hrs.**

Supervised assessment and teaching experience in special education as listed in the Schedule of Classes. May be repeated in different areas for up to 12 hours. Offered credit/no credit option only. Section 29 (Early Childhood, Birth-3) may be taken for 1-3 hours, and is graded credit. Prerequisite(s): junior standing; consent of instructor. (Offered Fall and Spring)

### **220:240. Collaborative Consultation I: The Relationship - 3 hrs.**

Emphasis on the psychological and behavioral considerations involved in successfully forming and maintaining a collaborative consulting relationship. In-depth topics include self-management, personality style and versatility, starting the relationship, and establishing one's role with the group and individual. (Offered Fall)

### **220:245. Collaborative Consultation II: The Process - 3 hrs.**

Provides in-depth understanding and beginning execution of a systematic model of collaborative consulting including four processes or sets of procedures for carrying out the model. Emphasis on planning, problem clarification and analysis, teaching and teacher strategy, presenting solutions, and dealing with teacher concerns and fears. (Offered Spring)

### **220:254. Vocational and Transition Assessment of Individuals with Disabilities - 3 hrs.**

Assessment and application of techniques for professionals working with adolescents or adults with disabilities. Designed for those interested in vocational and transition programming for individuals with disabilities. Prerequisite(s): 220:151 or consent of instructor. (Variable)

### **220:256. Best Practices in Inclusion - 3 hrs.**

Provides preparation in pedagogical, curricular, and professional collaboration practices, and provides knowledge of empirical, legal, and historical considerations integral to the accommodation of all learners into the general education classroom. Prerequisite(s): graduate standing. (Variable)

### **220:260. Special Education Law and Policy - 3 hrs.**

Provides information and conceptual understanding of legislative, executive, and judicial action affecting special education programs for children

and youth with disabilities. Prerequisite(s): graduate standing. (Offered Fall and Spring)

### **220:278. Administration of Special Education - 3 hrs.**

Prepares administrators to plan programs for various areas of special education, select and evaluate personnel, provide instructional materials, interpret the program to the community, and be informed concerning legal provisions for special education. (Variable)

### **220:289. Seminar - 3 hrs.**

May be repeated on different topics for maximum of 9 hours. Prerequisite(s): 220:183 or 220:187; 220:192. (Offered Fall)

### **220:290. Practicum - 1-6 hrs.**

Requires written consent of department. May be repeated for maximum of 9 hours. (Offered Fall and Spring)

### **220:293. Qualitative Research in Special Education - 3 hrs.**

In-depth methodological understanding of qualitative research and the opportunity to conduct qualitative research projects in special educational settings. Prerequisite(s): 250:205. (Offered Fall)

### **220:295. Single-subject Research Applications - 3 hrs.**

In-depth understanding of single-subject methodology for conducting applied research projects in educational settings. Participation in an applied research project with emphasis on the relationship between applied research and best practices in teaching persons with disabilities. (Offered Spring)

### **220:299. Research - 2-3 hrs.**

May be repeated for maximum of 6 hours. (Offered Fall and Spring)

### **220:340. Disability, Culture, and Educational Leadership - 3 hrs.**

Introduction to theory and practice in educational leadership related to changing cultural and societal understanding of disability. Prerequisite(s): master's degree in Special Education, Educational Leadership, or the Principalship certification. (Variable)

## 230 Literacy Education

### **230:044. Children's Literature - 3 hrs.**

Evaluation, selection, and teaching of literature in the elementary school language arts program. (Offered Fall and Spring)

### **230:115. Methods of Teaching Early Literacy - 3 hrs.**

Reading and writing instruction in grades PK-3, with an emphasis on integrating reading, writing, speaking, and listening, as well as integration across content areas. Prerequisite(s) or corequisite(s): 230:044. (Offered Fall, Spring, and Summer)

### **230:116. Methods of Teaching Content Literacy in the Intermediate Grades - 3 hrs.**

Reading and writing instruction in grades 3-6, with an emphasis on integrating reading, writing, speaking, and listening, as well as integration across content areas. Prerequisite(s): 210:150 or 210:152; 230:044; completion of Levels I and II of Professional Education Requirements; junior standing. Prerequisite(s) or corequisite(s): 230:115 (Offered Fall, Spring, and Summer)

### **230:117(g). Methods of Teaching Content Literacy at the Middle and Secondary Levels - 3 hrs.**

Literacy instruction in the middle and secondary grades, including understanding the reading process, literacy across the curriculum, improving fluency, and assessment of literacy. Prerequisite(s): completion of Levels I and II Professional Education Requirements; junior standing. (Offered Fall and Spring)

### **230:119. Language Development and Emergent Literacy - 3 hrs.**

Theories underlying young children's acquisition of oral language and early reading and writing. Emphasis on implications for literacy curriculum in the primary grades. Prerequisite(s): 230:044 and one of the following: 230:115, 230:116 or 230:117 or consent of instructor; junior standing. Students must earn a grade of B- (.267) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and



UNI GPA of 3.00 or higher to enroll in this course. (Offered Fall, Spring, and Even Summers)

**230:121. Advanced Children's Literature - 3 hrs.**

Issues and trends in children's literature, including use in elementary school programs. Focus on values, uses, and controversies related to children's literature by and about major American minority groups, including ethnic, religious, and socioeconomic minorities. Prerequisite(s): 230:044; junior standing. Students must earn a grade of B- (2.67) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and UNI GPA of 3.00 or higher to enroll in this course. (Offered Fall, Spring, and Odd Summers)

**230:140. Assessment and Evaluation of Literacy - 3 hrs.**

Introductory course in evaluating the reading and language abilities of individual children through instruction within a classroom setting. Includes group and individual evaluation, informal assessment procedures, selection of materials, and instructional strategies to meet the needs of individual learners. Prerequisite(s): 230:044 or 620:165; 230:115, 230:116, or 230:117; 230:119 or 230:121; or consent of instructor; junior standing. Students must earn a grade of B- (2.67) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and UNI GPA of 3.00 or higher to enroll in this course. (Offered Fall, Spring, and Summer)

**230:147. Remedial Reading - 3 hrs.**

Selection, implementation, and interpretation of a variety of reading and language arts assessment procedures and the development of effective individualized instructional programs. Prerequisite(s): 230:044 or 620:165; 230:115, 230:116, or 230:117; 230:119 or 230:121; 230:140; or consent of instructor; junior standing. Students must earn a grade of B- (2.67) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and UNI GPA of 3.00 or higher to enroll in this course. (Offered Fall, Spring, and Summer)

**230:155(g). Grammar for Middle Level Educators - 1 hr.**

The structure of English grammar and best practices for teaching grammar at the middle level will be examined. This course fulfills Iowa Department of Education Middle Level Endorsement requirements for course work in grammar. Prerequisite(s): junior standing. (Offered Fall and Spring)

**230:192. Experience in Reading: Tutoring - 3 hrs.**

Supervised tutoring in the University Reading Center or in a public school reading center. Prerequisite(s): 230:140; junior standing. Students must earn a grade of B- (2.67) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and UNI GPA of 3.00 or higher to enroll in this course. Corequisite(s): 230:147. (Offered Fall, Spring, and Summer)

**230:193(g). Experience in Reading: Field - 1-2 hrs.**

Supervised experience teaching in elementary or secondary reading programs. May be repeated for a maximum of 4 hours. Prerequisite(s): junior standing. Students must earn a grade of B- (2.67) or above in Literacy Education minor courses numbered 230:119 or above and have a cumulative and UNI GPA of 3.00 or higher to enroll in this course. (Offered Fall, Spring, and Summer)

**230:212. Methods and Materials in Literacy Education - 3 hrs.**

Integrated approach to language learning within and across grades K-12, with a strong emphasis on reading and writing connections within content areas and across children's and young adult literature. Prerequisite(s): graduate standing; previous course work in literacy education or consent of instructor. (Variable)

**230:238. Advanced Assessment and Evaluation of Literacy Development - 3 hrs.**

Experience in assessment and evaluation of literacy processes. Survey of interrelationship of assessment and evaluation to literacy development including current issues and practices. Prerequisite(s): graduate stand-

ing, previous course work in literacy education, or consent of instructor. (Variable)

**230:239. Advanced Literacy Studies - 3 hrs.**

Students locate, read, examine, analyze, and evaluate a variety of historical and contemporary literacy research pieces; make plans for research studies and write literature reviews, conference and grant proposals. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**230:240. Language Development and Variability - 3 hrs.**

Exploration of research on factors generally associated with variability in language and literacy development, on methods designed to promote language and literacy development, and on roles of teachers and parents in promoting this development in children with differences. Prerequisite(s): graduate standing, previous course work in literacy education, or consent of instructor. (Variable)

**230:245. Ideological, Cultural, and Sociopolitical Issues in Children's Literature - 3 hrs.**

Advanced literacy course exploring ideological, cultural, social, and political issues in children's literature. Study in sociocultural contexts of literacy instruction, with critical analysis of literature as an instrument to inform and transform life as well as learning. Prerequisite(s): 230:044 or consent of instructor. (Variable)

**230:247. Remedial Reading - 3 hrs.**

Selection, implementation, and interpretation of a variety of literacy assessment procedures and the development of effective individualized instructional programs. Prerequisite(s): 230:140 or 230:238 or written consent of instructor. Corequisite(s): 230:292. (Variable)

**230:260. Roles of the Reading Specialist - 3 hrs.**

Exploration of the five major leadership roles required of school personnel who serve as reading and language arts specialists. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**230:289. Seminar - 2-4 hrs.**

Seminar topics to be announced in Schedule of Classes. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Variable)

**230:290. Practicum - 2-4 hrs.**

Supervised experience in teaching and/or supervision of instruction. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

**230:292. Experience in Reading: Tutoring - 3 hrs.**

Supervised tutoring in the field, involving assessment procedures and literacy instruction. Prerequisite(s): 230:140 or 230:238 or written consent of instructor. Corequisite(s): 230:247. (Variable)

**230:299. Research - 1-6 hrs.**

Intended as the final course in the Curriculum and Instruction: Literacy Education program; focuses on completion of final research project and preparation for comprehensive examination in a collaborative seminar setting. Thesis requires a total of 6 hours. Non-thesis requires a total of 3 hours. (Offered Fall, Spring, and Summer)

**230:354. Curriculum Development and Evaluation in Reading/Language Arts - 3 hrs.**

Current models, methodologies, and decision-making approaches for development and evaluation of K-12 programs. Prerequisite(s): 210:352. (Variable)

**230:389. Seminar in Reading - 1 hr.**

Series of one-hour seminars to accompany doctoral work in statistics, research, and practicum experiences. May be repeated for maximum of 3 hours. Prerequisite(s): consent of instructor. (Variable)

**230:397. Practicum in Reading - 2-4 hrs.**

Supervised professional experience teaching reading education courses at the university level or participating in reading program supervision and consulting within a school district. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Variable)

### 240 Instructional Technology

#### **240:020. Secondary Educational Technology and Design - 2 hrs.**

Design and production of media and the operation of hardware and software for grades 5-12 educational use. Includes selection and use of various educational technologies within an instructional design framework. (Offered Fall, Spring, and Summer)

#### **240:030. Classroom Computer Applications - 3 hrs.**

Use of microcomputer technology in the classroom. Emphasis on evaluating instructional software and integrating computer technology with common teaching/learning practices. Prerequisite(s): 240:020 or 240:031. (Offered Spring)

#### **240:031. Educational Technology and Design - 3 hrs.**

Selection and use of various educational technologies within an instructional design framework. Includes the design and production of media and the operation of hardware and software for Pre-K-8 educational use. (Offered Fall, Spring, and Summer)

#### **240:131(g). Technology in Education - 3 hrs.**

Issues confronting contemporary education and the effective integration of technology to support learning. Investigation of the historical, social and scientific uses of technology in education from various perspectives. Prerequisite(s): junior standing. (Offered Fall)

#### **240:138(g). Visual Literacy - 3 hrs.**

Focus on examining aspects of visual design. Interpretation and design of visuals that facilitate communication. Prerequisite(s): junior standing. (Offered Spring)

#### **240:139(g). Media Planning and Production - 3 hrs.**

Planning steps essential for media production; processes, equipment, techniques, and services needed for the production, duplication, and release of media. Lab as arranged. Prerequisite(s): 240:020 or 240:031 or consent of instructor; junior standing. (Offered Fall, Spring, and Summer)

#### **240:140(g). Using Databases in Education - 3 hrs.**

Introduction to using databases and informational retrieval systems in an educational setting. Emphasis on basic concept and skills of databasing and experiencing ways that databases can be used in a teaching method to emphasize problem-solving. Exploration beyond personal computer databases to using and integrating Internet resources into classroom curriculum. Prerequisite(s): 240:020 or 240:031; junior standing. (Offered Fall and Summer)

#### **240:147(g). Digital Imaging - 3 hrs.**

Focus on basic principles, skills, and techniques of preparing digital images. Lab as arranged. Prerequisite(s): junior standing. (Offered Fall and Summer)

#### **240:150(g). Digital Instructional Television Production - 3 hrs.**

Theoretical/practical aspects of digital instructional TV production. Includes composition, sound, editing, graphics, and planning using support by digital technology. Students plan and produce a real-world instructional television production. Lab as arranged. Prerequisite(s): 240:139; junior standing; consent of instructor. (Offered Spring)

#### **240:153(g). Emerging Instructional Technologies - 3 hrs.**

Current leading-edge research about emerging instructional technologies is integrated with hands-on experiences. Existing applications are examined and skills necessary for implementation are learned. Students integrate technology into an instructional unit and document their pedagogical choices. Prerequisite(s): 240:030 or 240:139; junior standing; consent of instructor. (Offered Fall and Summer)

#### **240:160. Media Projects - 1-4 hrs.**

Specialized study in independent media projects. Credit to be determined at time of registration; project, credit and evaluation criteria require advance consent of instructor.

Sec. 1. Computer Applications. Prerequisite(s): 240:020 or 240:031.

Sec. 2. Digital Imaging. Prerequisite(s): 240:147.

Sec. 3. Learning Environments.

Sec. 4. Multi-Media Authoring. Prerequisite(s): 240:030.

Sec. 5. Television. Prerequisite(s): 240:150.

Sec. 6. Visualization.

Sec. 7. Web Development. Prerequisite(s): 240:020 or 240:031.

May be repeated for maximum of 4 hours for any section. (Offered Fall, Spring, and Summer)

#### **240:170(g). The Principles of Publication Design - 3 hrs.**

Focus on evaluation and design of electronically-produced materials. Hands-on experiences with desktop publishing. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

#### **240:186. Studies in Media - 1-4 hrs.**

(Offered Fall, Spring, and Summer)

#### **240:189. Readings in Media - 1-3 hrs.**

(Offered Fall, Spring, and Summer)

#### **240:205. Instructional Computing Design - 3 hrs.**

Evaluation and design of computer-based instructional materials. Hands-on experiences with the design of computer-based lessons. Prerequisite(s): 240:240. (Offered Spring and Summer)

#### **240:210. Distance Education - 3 hrs.**

Introduction to distance education. Focus on historical perspectives, theories, research, and operational issues. (Offered Spring)

#### **240:230. Communication Theory in Media - 3 hrs.**

Contemporary theory of human and mass communication, learning, perception, and propaganda as they apply to message design utilizing communication media. (Offered Spring)

#### **240:232. Selection and Integration of Materials - 3 hrs.**

Evaluation of the instructional setting along with the procedures for selection and integration of materials. (Variable)

#### **240:235. Performance Management and Technology - 3 hrs.**

Enables students to analyze the field of instructional technology, human resource development, instructional development, and training. Focus includes the role of the professional as an instructional designer, related definitions, applicable associations, and relevant periodicals, current issues, and self-assessment on competencies. Requirements include joining a professional association related to the field and attending a local meeting of a professional association related to the field. (Offered Fall)

#### **240:237. Coordinating Technology in an Educational Setting - 3 hrs.**

Examination of the many roles assumed by a technology coordinator in an educational setting. Exploration of the processes of technology planning, management, and support in both theory and through practical applications. (Offered Spring)

#### **240:240. Instructional Development - 3 hrs.**

Analysis and synthesis for structuring learning environments including learner, task, environmental, and instructional strategy analysis. (Offered Fall)

#### **240:245. Applied Instructional Design - 3 hrs.**

Application of current research and theory into the instructional design process. Prerequisite(s): 240:240 (Offered Spring)

#### **240:260. Advanced Media Projects - 1-4 hrs.**

Specialized study in independent media projects. Credit to be determined at time of registration; project, credit, and evaluation criteria require advance consent of instructor.

Sec. 1. Computer Applications. Prerequisite(s): 240:139.

Sec. 2. Digital Imaging. Prerequisite(s): 240:147.

Sec. 3. Learning Environments.

Sec. 4. Multimedia Authoring.

Sec. 5. Television. Prerequisite(s): 240:150.

Sec. 6. Visualization.

Sec. 7. Web Development. Prerequisite(s): 240:170.

May be repeated for maximum of 4 hours for any section. (Offered Fall, Spring, and Summer)

**240:285. Readings in Media - 1-3 hrs.**

Review of individualized selected readings in an area of emphasis as determined by instructor and student. May be repeated for maximum of 3 hours. (Offered Fall, Spring, and Summer)

**240:286. Studies in Media - 1-4 hrs.**

Individualized study of a specific problem or application in an area as determined by instructor and student. (Offered Fall, Spring, and Summer)

**240:289. Seminar - 1 hr.**

Special topics listed in Schedule of Classes. May be repeated on different topics for maximum of 3 hours. (Offered Fall, Spring, and Summer)

**240:297. Practicum - 2-3 hrs.**

(Offered Fall, Spring, and Summer)

**240:299. Research.**

(Offered Fall, Spring, and Summer)

**240:340. Designing Instructional Systems - 3 hrs.**

Application of current research and theory to the instructional design process. Systematic process of translating principles of learning and instruction, employing several instructional design models. (Variable)

## **250 Measurement and Research**

**250:150. Classroom Assessment - 2 hrs.**

Introduction to classroom assessment. Topics include: principles of preparation and appropriate use of teacher-constructed assessment instruments; methods of reporting assessment information; and purposes and interpretation of standardized test scores. Prerequisite(s): 200:017; 200:030. Prerequisite(s) or corequisite(s): 200:128; 200:148. (Offered Fall, Spring, and Summer)

**250:180(g). Statistical Methods in Education - 3 hrs.**

Introduction to statistical methods. Includes graphing techniques, measures of central tendency and variability, correlation, t-tests, one-way ANOVA, and chi-square. Prerequisite(s): junior standing. (Offered Fall and Spring)

**250:181(g). Educational Evaluation in Teaching - 3 hrs.**

Principles of measurement and evaluation in the elementary, secondary, and postsecondary schools. Test construction techniques for written tests and performance tests, with norm-referenced and criterion-referenced interpretations; uses of teacher-made instruments and standardized tests. Prerequisite(s): 200:148; 250:150 or equivalent; junior standing. (Variable)

**250:205. Educational Research - 3 hrs.**

Evaluation of educational research concepts, including purposes, hypotheses, principles of research design, data collection, and interpretation of results. (Offered Fall, Spring, and Summer)

**250:270. Educational Program Evaluation - 3 hrs.**

Examination of models, data-gathering methods, analysis, and report preparation for educational program evaluation; attention to application of evaluation research to specific school and non-school settings. (Variable)

**250:281. Statistics and Measurement - 3 hrs.**

Application of statistical principles to research in school psychology. Topics selected from correlational analysis; reliability and validity; analysis of variance; sampling; chi-square, t, and F distributions. Emphasis on statistical inference and basic measurement principles. Prerequisite(s): 250:180 or the equivalent. (Offered Summer)

**250:282. Individual Intellectual Assessment - 3 hrs.**

Administration, scoring, and interpretation of widely used scales of intelligence. Consideration of cognitive assessment issues, including conceptualizations of intelligence, racial and ethnic bias, and applications in school settings. (Offered Fall)

**250:283. Academic Assessment and Intervention - 3 hrs.**

Ecological approach to academic assessment and intervention; discussion of curriculum-based and standardized measures, ethical considerations

and measurement principles; and introduction to academic interventions. (Offered Spring)

**250:284. Advanced Psychodiagnostics - 3 hrs.**

Tests of academic and socio-emotional development of individual students, including interpretation and dissemination of results; ethical considerations and measurement principles. (Offered Fall)

**250:285. Readings.**

(Variable)

**250:289. Seminar in Evaluation and Research.**

(Variable)

**250:299. Research.**

(Variable)

**250:300. Descriptive Educational Research - 3 hrs.**

Examination of theoretical and practical aspects of survey research including sampling, instrumental design and administration, and application of computer techniques to the analysis of survey information. Prerequisite(s): 250:180; 250:205; 250:281; or consent of department. (Offered Fall)

**250:301. Advanced Experimental Research in Education - 3 hrs.**

Relationships between scientific research, theory construction and ethical principles; true-experimental and quasi-experimental designs; univariate, factorial, and multivariate analyses with appropriate computer applications; critical review of experimental literature and preparation of research manuscripts. Prerequisite(s): 250:180; 250:205; 250:281; or consent of department. (Variable)

**250:310. Advanced Qualitative Methods in Educational Research - 3 hrs.**

In-depth examination of the practice of qualitative inquiry. Focus on field work project leading to potentially publishable paper. Prerequisite(s): 190:305; consent of department. (Variable)

## **260 Social Foundations**

**260:020. Introduction to Teaching as a Profession - 3 hrs.**

For the undecided individual to explore the personal and professional considerations associated with a decision to teach. (Variable)

**260:119. Schools and American Society - 3 hrs.**

Relationship of schools and American society from sociological, historical, philosophical, political, and economic perspectives. Focus on central characteristics of the educational system and influence of these on teachers as professionals and teaching as a profession. Prerequisite(s): 200:128; 200:148; 250:150. (Offered Fall, Spring, and Summer)

**260:134(g). History of Education - 3 hrs.**

Education as a formal institution; emphasis on the historical antecedents which have affected education in Western Culture and America. Prerequisite(s): junior standing. (Variable)

**260:135(g). Reform Movements in Education - 3 hrs.**

Criticism of American schooling developed since the 1950s; social implications of various movements to reform the schools, establish alternatives to schools, and to deschool society. Prerequisite(s): junior standing. (Variable)

**260:234. Philosophy of Education - 3 hrs.**

Analytical study of major philosophical viewpoints of modern education, emphasis on professional problems of education and the development of educational principles. (Offered Fall)

**260:299. Research.**

(Variable)

## **270 Educational Leadership**

**270:198. Independent Study.**

(Variable)

**270:206. Orientation to Educational Leadership - 2 hrs.**

Orientation to study of school leadership, historical development of schools, philosophical perspectives impacting educational practices, and

## 270 Educational Leadership

issues and trends influencing educational developments. Corequisite(s): 270:245. (Offered Fall)

### **270:208. Personal and Professional Development - 1 hr.**

Examination of concepts of educational and leadership ethics, personal characteristics and ability for educational leadership roles, and necessary skills to deal with stress and demands of leading an educational organization. Prerequisite(s): 270:206; 270:245. (Variable)

### **270:224. Organizational Studies - 1-3 hrs.**

Provides knowledge base for study of contemporary and classical thought on organization behavior and organization development in schools. Prerequisite(s): 270:206; 270:245. (Variable)

### **270:232. School Governance, Law and Intersystems Relations - 3 hrs.**

Development of knowledge of the many aspects of local, regional, state, and federal governance of public schools, legal issues, school funding, respect for people's rights, and competence in managing school risk to avoid legal liability. Prerequisite(s): 270:206; 270:245. (Variable)

### **270:245. Leadership - 3 hrs.**

Study of contemporary leadership, change, and staff development in school organizations. Corequisite(s): 270:206. (Offered Fall)

### **270:247. Organization Management: School and Community - 3 hrs.**

Examination of the key administrative concepts and techniques employed by effective school principals. Prerequisite(s): 270:206; 270:245; or consent of instructor. (Variable)

### **270:249. Curriculum and Assessment - 3 hrs.**

Knowledge and skills for elementary and secondary principals in providing leadership in curriculum development practices commensurate with individual, school, and community belief systems. Prerequisite(s): 270:206; 270:245; or consent of instructor. (Variable)

### **270:280. Technology - 1-3 hrs.**

Provides expanded knowledge base of the processes for gathering, analyzing, and using data for informed decision making as well as experiences with utilizing computers and other technologies connected with instruction and educational programming. Prerequisite(s): 270:206; 270:245; or consent of instructor. (Variable)

### **270:282. Change and Transformation - 2 hrs.**

Integration of knowledge about leadership, change, and staff development into a holistic vision of leading a school transformation project. Prerequisite(s): 270:206; 270:245; or consent of instructor. (Variable)

### **270:284. Evaluator Approval for Improved Student Learning - 3 hrs.**

Development of knowledge of various problems and procedures in the organization of elementary and secondary school professional growth. Special emphasis on supervision processes and identifying and analyzing effective teaching and performance behaviors. Prerequisite(s): 270:206; 270:245; or consent of instructor. (Variable)

### **270:285. Readings in Educational Leadership - 1-3 hrs.**

Prerequisite(s): written consent of instructor. (Offered Fall, Spring, and Summer)

### **270:289. Seminar in Educational Leadership.**

Seminars offered on special topics as indicated in the Schedule of Classes. (Variable)

### **270:290. Practicum in Principalship - 2-4 hrs.**

Offered on credit/no credit basis only. Prerequisite(s): practicum integrated throughout program. (Offered Fall, Spring, and Summer)

### **270:291. Internship - 1-5 hrs.**

Advanced supervised experience to further develop skills. May be repeated. Offered on credit/no credit basis only. Prerequisite(s): 270:206; 270:245; consent of instructor. (Variable)

### **270:292. Internship - Capstone - 4 hrs.**

Final project with a work product relevant to the needs of the school district. Prerequisite(s): 270:206; 270:245; consent of advisor. (Variable)

### **270:299. Research.**

(Variable)

### **270:310. Human Resource Administration - 3 hrs.**

Teacher selection and placement, promotion, tenure, collective bargaining and retirement; administration of pupil personnel facilitating services. (Variable)

### **270:311. Educational Leadership and Systems Change - 3 hrs.**

Examination of knowledge base for both change and leadership. Emphasis on understanding how change factors and leadership styles interact to influence receptiveness to and acceptance of change. Prerequisite(s): doctoral status or consent of college. (Same as 170:311) (Variable)

### **270:314. Introduction to the Superintendency - 3 hrs.**

Introduction to study of the superintendency to gain familiarity with various aspects and challenges facing superintendents, to develop understanding of the dynamics which affect superintendent's behaviors, and to develop an understanding of the specific responsibilities of the superintendency. Prerequisite(s): master's degree in Educational Leadership or the Principalship certification. (Variable)

### **270:320. Curriculum/Program Assessment/Accountability - 3 hrs.**

Provides superintendency students with an expanded knowledge base of the processes of curriculum planning and development, instructional management, and program evaluation. Prerequisite(s): master's degree in Educational Leadership or the Principalship certification. (Variable)

### **270:325. Organization, Governance, and Administration of Public Education - 3 hrs.**

Analysis of theories of organization and management models; examination of governance, function, and administration of local, intermediate, state, and federal education agencies. Prerequisite(s): one course in management or administration in education or consent of department. (Variable)

### **270:338. Safe, Effective, and Efficient Environment - 3 hrs.**

Provides familiarity with issues and challenges of school safety, school climate and discipline, school crises planning, personal safety, school security, parent and community roles in crime and crisis prevention; emphasis on proactive rather than reactive approach. Prerequisite(s): master's degree in Educational Leadership or the Principalship certification. (Variable)

### **270:340. Educational Finance - 3 hrs.**

Financial support for education; emphasis on Iowa. (Variable)

### **270:346. School Business Management - 3 hrs.**

Develops the rationale for the function of school business administration. Assists school administrators in managing business affairs and auxiliary services of the school district. Prerequisite(s): 270:340; master's degree in Educational Leadership or the Principalship certification. (Variable)

### **270:354. Collective Bargaining in the Public Sector - 1-3 hrs.**

Basic principles of collective bargaining as they apply to educational administration. (Variable)

### **270:385. Readings in Educational Leadership - 1-3 hrs.**

Individualized list of selected readings in an area of emphasis, as determined by instructor and student. Prerequisite(s): written consent of instructor. (Offered Fall and Spring)

### **270:389. Seminar in Educational Leadership - 2-3 hrs.**

Offered on special topics as determined and scheduled by the department. May be repeated for maximum of 6 hours. Limited to post-master's students. (Variable)

### **270:391. Internship in Educational Leadership - 1-9 hrs.**

Advanced supervised experience to further develop skills. May be repeated. Offered on credit/no credit basis only. Prerequisite(s): consent of advisor. (Variable)

### **270:397. Practicum in Educational Leadership - 2-4 hrs.**

May be repeated. Offered on credit/no credit basis only. Limited to post-master's students. Prerequisite(s): consent of advisor. (Offered Fall and Spring)

## 280 Teaching

### 280:132. Early Childhood Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall, Spring, and Summer)

### 280:134. Elementary Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:135. Special Education Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:137. Middle School/Junior High Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:138. Secondary School Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:139. Vocational/Technical Teaching - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:140. Special Area Teaching: Art, ESL, Music, and Physical Education - 4-12 hrs.

Offered on credit/no credit basis only. Provides the student the opportunity to experience, in depth, the full role and meaning of teaching in a school setting. Experiences include planning and organizing for instruction, developing classroom teaching competencies and skills, evaluating

pupil progress, participating in extra-class activities, working with special school personnel, and utilizing school and community resources in the instructional program. Prerequisite(s): completion of Levels I and II of the Professional Education Requirements. (Offered Fall and Spring)

### 280:150. Laboratory Practice - Elementary(\*).

For experienced teachers (\*elementary) who have not fulfilled the student teaching requirements for certification and to provide an in-depth experience. Includes practice in modern teaching procedures, construction and use of classroom instructional materials, analysis of the teaching-learning process, meeting needs of exceptional children, classroom supervision, and school-parent relations. Special seminar arranged. Requires departmental recommendation and consent. (Variable)

### 280:151. Laboratory Practice - Secondary(\*).

For experienced teachers (\*secondary) who have not fulfilled the student teaching requirements for certification and to provide an in-depth experience. Includes practice in modern teaching procedures, construction and use of classroom instructional materials, analysis of the teaching-learning process, meeting needs of exceptional children, classroom supervision, and school-parent relations. Special seminar arranged. Requires departmental recommendation and consent. (Variable)

### 280:170(g). Human Relations: Awareness and Application - 3 hrs.

Development of awareness of various societal subgroups, recognizing and dealing with dehumanizing biases, and learning to relate effectively to various groups in order to foster respect for human diversity. Emphasis on self-awareness in human relations issues and how this awareness can be translated into positive relationships with others and integrated into one's professional responsibilities. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### 280:191(g). Supervision of Student Teaching - 3 hrs.

Designed primarily for those presently or potentially involved in the supervision of student teachers. Includes the selection and preparation of student teachers; readiness for student teaching; principles of supervision, including the identification and analysis of good classroom procedures and desirable experiences for the student teacher in the total school program; professional responsibilities of the student teacher in the school and community; evaluation of student teachers, and the supervising teacher's role in the selection of teachers for the profession. Also includes the selection and preparation of student teaching centers, qualifications of supervising teachers, and the role of the coordinator of student teaching. Prerequisite(s): junior standing. (Variable)

### 280:250. Advanced Laboratory Practice - 2-12 hrs.

Student may concentrate on any aspect of the school program, such as curriculum, methods, evaluation, remedial instruction, guidance, supervision, administration, public school relations, educational technology and audio-visual aids, and extra-class activities. Requires consent of the Head of Department of Teaching. (Offered Fall, Spring, and Summer)

## 290 Counseling

### 290:103(g). Introduction to Professional Counseling - 3 hrs.

Introduction to counseling in school (K-12), mental health and community agency settings. Emphasis on professional roles, current trends, and legal/ethical issues. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

### 290:105(g). Counseling Skills - 3 hrs.

Focus on developing counseling skills with emphasis on self-understanding. Verbal and non-verbal counseling skills are developed through lecture, demonstration, and extensive laboratory practice. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

### 290:198. Independent Study. (Variable)

### 290:205. Counseling Processes with Individuals and Systems - 3 hrs.

Develops advanced-level counseling skills necessary for clinical practice in mental health settings. Focus on case conceptualization and specific

## 290 Counseling/300 Safety Education

interventions for initiating, sustaining, and terminating a counseling experience. Extensive skill practice/lab. Prerequisite(s): 290:103; 290:105 (grade of B or higher); 290:227 (highly recommended); consent of department head. (Offered Spring)

### **290:210. Developing Comprehensive School Counseling Programs - 3 hrs.**

Focus on managing, organizing, and designing K-12 comprehensive, sequential, developmental guidance programs. Prerequisite(s): School Counseling major; 290:103; 290:105; consent of department head. (Offered Summer)

### **290:220. Group Counseling Skills and Processes - 3 hrs.**

Emphasis on theoretical and experiential understandings of group dynamics, development, theories, and methods. Focus on group leadership and group membership. Experiential laboratory participation incorporated. Prerequisite(s): 290:103; 290:105; consent of department head. (Offered Fall and Spring)

### **290:225. Facilitating Career Development - 3 hrs.**

Exploration of career development theory and career counseling techniques. Emphasis on significance of occupational choice; examination of sociological, psychological, and economic factors. Prerequisite(s): 290:103; 290:105; consent of department head. (Offered Summer)

### **290:226. Consultation Skills - 3 hrs.**

Principles, procedures, and process of consultation with emphasis on developing consultation skills. Prerequisite(s): 290:103; 290:105; 290:205 or 290:254 (highly recommended); consent of department head. (Offered Spring and Summer)

### **290:227. Counseling Theory - 3 hrs.**

Overview of predominant counseling and human development theories, including emphasis on learning and personality development and normal and abnormal human behavior. Stresses practical applications in school and mental health settings. Prerequisite(s): consent of department head. Prerequisite(s) or corequisite(s): 290:103 and/or 290:105. (Offered Fall and Summer)

### **290:228. Assessment Techniques in Counseling - 3 hrs.**

Assessment and appraisal procedures of individuals and groups. Primary focus on the understanding and use of standardized and non-standardized tests, inventories, observations, and case data for diagnosis in counseling. Prerequisite(s): 290:103; 290:105; 290:205 (highly recommended); consent of department head. (Offered Fall and Spring)

### **290:241. Treatment Procedures in Mental Health Counseling - 3 hrs.**

Emphasis on the diagnosis of psychopathology and corresponding treatment procedures. Includes etiology, diagnosis, and treatment of mental and emotional disorders and dysfunctional behavior. Prerequisite(s): 290:103; 290:105; 290:205; 290:227; 290:228 (highly recommended); 400:142; consent of department head. (Offered Summer)

### **290:250. Family Counseling - 3 hrs.**

Emphasis on a family systems perspective. Includes theoretical foundations, family developmental life cycles, identification of functional/dysfunctional family systems, survey of interventions and general process of family counseling. Prerequisite(s): 290:103; 290:105; 290:227 (highly recommended); consent of department head. (Offered Fall and Spring)

### **290:254. Counseling Children and Adolescents - 3 hrs.**

Normal and abnormal child/adolescent development, problem conceptualization from an individual as well as a systems-based perspective, and development of advanced-level counseling skills with emphasis on age-appropriate assessment and interventions. Lab practice and actual counseling experience with young clients. Prerequisite(s): 290:105 (grade of B or higher); 290:227 (highly recommended); consent of department head. (Offered Fall)

### **290:256. Multicultural Counseling - 3 hrs.**

Emphasizes examination of personal attitudes, perceptions, and behaviors regarding women, ethnic minorities, elderly, gays and lesbians, and

persons with disabilities and concepts such as oppression. Increases understanding of counseling theories and techniques within a multicultural paradigm. Prerequisite(s): 290:103; 290:105; 290:227; consent of department head. (Offered Spring and Summer)

### **290:260. Advanced Family Counseling - 3 hrs.**

Emphasis on treatment procedures, the integration of theory and practice, and application of family counseling concepts in the work setting. Prerequisite(s): 290:250 or consent of instructor. (Variable)

### **290:262. Intervention and Prevention with Children, Adolescents, and Parents - 3 hrs.**

Emphasis on skill development in applying developmentally-appropriate prevention and intervention strategies with children and adolescents; addresses working with parents and "at-risk" youth. Lab practice and actual counseling experience with youth. Prerequisite(s): 290:105; 290:254; consent of department head. (Offered Fall)

### **290:285. Readings in Counseling - 1-3 hrs.** (Variable)

### **290:289. Seminar in Counseling - 1-3 hrs.**

Special topics as indicated in the Schedule of Classes. (Variable)

### **290:290. Practicum in Counseling - 3 hrs.**

First-level intensive experience designed to further develop individual and group counseling skills. Offered on credit/no credit basis only. Prerequisite(s): for School Counseling: 290:103; 290:105; 290:220; 290:227; 290:250 (recommended); 290:254 (grade of B or higher); 290:262 (highly recommended); consent of department head. Prerequisite(s) for Mental Health Counseling: 290:103; 290:105; 290:205 (grade of B or higher); 290:220; 290:227; 290:241 (recommended/can take as corequisite); 290:250 (recommended); 400:142; consent of department head. (Offered Fall and Spring)

### **290:291. Internship - 3-6 hrs.**

Advanced intensive experience designed to integrate counseling and consultation skills in a work setting. Offered on credit/no credit basis only. Prerequisite(s): for School Counseling: 290:262; 290:290; consent of department head. Prerequisite(s) for Mental Health Counseling: 290:290; consent of department head. (Offered Fall and Spring)

### **290:299. Research.** (Variable)

## 300 Safety Education

### **300:130(g). Driver and Traffic Safety I - 3 hrs.**

Classroom and practice driving units; safety education as a social problem; development of safety skills, habits, attitudes, and ideals; accident causes; study of research. Prerequisite(s): junior standing. (Offered Variable through Continuing Education and Special Programs)

### **300:131(g). Driver and Traffic Safety II - 3 hrs.**

Classroom and in-the-car techniques of imparting instruction to high school students taking driver education. Prerequisite(s): junior standing. (Offered Variable through Continuing Education and Special Programs)

### **300:132(g). Directing the Safety Program - 2 hrs.**

Organization and administration of safety programs through the entire school system. Prerequisite(s): junior standing. (Offered Variable through Continuing Education and Special Programs)

### **300:140(g). Traffic Law Enforcement - 3 hrs.**

Acquaints safety and driver education teachers with the purposes of traffic law enforcement and traffic engineering. Prerequisite(s): junior standing. (Offered Variable through Continuing Education and Special Programs)

### **300:192(g). Experience in Safety Education - 2-4 hrs.**

Offered in various specialized fields; may be repeated once for credit in a different area. Maximum of 8 hours credit. Prerequisite(s): junior standing. (Offered Variable through Continuing Education and Special Programs)

## 310 Design, Textiles, Gerontology, & Family Studies

### 310:030. Basic Nutrition - 2 hrs.

Study of nutrition in relation to growth development and maintenance of the body. No credit for 310:030 if credit previously earned in 310:032. (Variable)

### 310:031. Nutrition for Early Childhood Education - 2 hrs.

Study of the role of nutrition in the growth and development of young children, and the effect of nutrition on learning processes. Focus on nutritional needs of young children as well as the incorporation of nutrition education into the curriculum in early childhood education. (Variable)

### 310:032. Fundamentals of Nutrition - 2-3 hrs.

Needs and functions of food nutrients for growth and maintenance of health through the life cycle. No credit for 310:032 if credit previously earned in 310:030. Prerequisite(s): 420:050 or 860:044 or 860:061 or equivalent or consent of instructor. (Variable)

### 310:199. Study Tour - 2-3 hrs.

(Variable)

### 310:288. Problems in Design, Family and Consumer Sciences - 1-4 hrs.

Various areas according to students' needs: (1) Human Development and Family Life; (2) Nutrition and Food Science; (3) Textile and Apparel; (4) Interior Design; (5) Management and Consumer Education. (Variable)

## 31F (Family Services/Family Studies)

### 31F:010. Human Identity and Relationships - 3 hrs.

Use of social science theory and research to understand psycho-socio-cultural influences in the development of identity and interpersonal relationships. Emphasizes application of current research and theory to facilitate positive individual growth and committed intimate relationships. (Offered Fall and Spring)

### 31F:020. Family Relationships - 3 hrs.

Understanding contemporary families as they exist in their cultural context. Exploration of how families change and adapt to normative and non-normative challenges. Application of family theory and current research in order to understand family dynamics. (Offered Fall and Spring)

### 31F:030. Research Methods in Family Science - 3 hrs.

Introduction to basic research methods used in family science. Quantitative and qualitative research designs, ethical considerations, and evaluating research results. Development of hypotheses based on current research and choice of appropriate methodologies to address them. (Offered Fall and Spring)

### 31F:054. Decision Making in Family Systems - 3 hrs.

Exploration of situational, intrapersonal, and interpersonal dynamics of family interaction and decision-making. Development, maintenance, enrichment, and change in relationships. Prerequisite(s): 31F:020. (Variable)

### 31F:055. Human Growth and Development - 3 hrs.

Examination of theory and research contributing to our understanding of how biological, psychological, and social influences shape interindividual differences and intraindividual change across the life span. Prerequisite(s): 400:001 or consent of instructor. (Offered Fall and Spring)

### 31F:057. Human Relationships and Sexuality - 3 hrs.

Human sexuality as an integration of biological, psychological, and social factors. Topics include developing healthy relationships, sexual orientation, love, sexuality education, sexual decision making, and challenges of sexual health and functioning. (Offered Fall and Spring)

### 31F:060. Strategies and Issues in Family Services - 3 hrs.

Survey of prevention and intervention models, methods and professional issues involved in family services. Prerequisite(s): 31F:020; 200:030 or 31F:055 or 400:120. (Offered Fall and Spring)

### 31F:077. Management of Family Resources - 3 hrs.

Exploration of the management of human and economic resources available to individuals and families through the lifespan from a family science perspective. Emphasis on financial, time, and work/family issues. Prerequisite(s): sophomore standing. (Offered Fall)

### 31F:130(g). Models and Methodology of Family Science - 3 hrs.

Exploration and integration of theoretical models and methodology utilized in family sciences. Prerequisite(s): 3 hours social science research methods; 12 hours in Family Services; junior standing. (Variable)

### 31F:145(g). Violence in Intimate Relationships - 3 hrs.

Exploration of theoretical models of violence in intimate and family relationships and examination of the impact of violence on secondary victims. Empirical and programmatic implications for prevention and intervention models are reviewed. Prerequisite(s): junior standing. (Variable)

### 31F:150(g). Family Perspectives in Adulthood and Aging - 3 hrs.

Examination of topics in aging families with an emphasis on theoretical perspectives related to the changing nature of relationships and daily life, and the contexts in which those changes occur. Highlights issues related to attitudes about aging, health, diversity, public policy, caregiving, and interventions. Prerequisite(s): 31F:020; 200:030 or 31F:055 or 400:120; junior standing. (Offered Fall)

### 31F:153(g). Family Relationships in Crisis - 3 hrs.

Family dynamics in crisis situations; review and application of the theoretical and empirical research about the effects of stress and crises on individuals and families, including intervention and policy implications. Prerequisite(s): 31F:020; 3 hours social science research methods; junior standing. (Variable)

### 31F:155(g). Parenting - 3 hrs.

Review of parent-child relationships and the dynamic processes of parenting children from conception through young adulthood. Emphasizes developmental and family theory and the diversity of contexts that impact parent-child relationships. Prerequisite(s): 31F:020; 200:030 or 31F:055 or 400:120; junior standing. (Offered Fall and Spring)

### 31F:157(g). Family Life and Human Sexuality - 3 hrs.

Theoretical and empirical literature regarding sexuality within family contexts. Evaluation and development of program materials in pregnancy prevention, sexual abuse, decision making, sexual health, and sexuality education. Prerequisite(s): 31F:057; 3 hours social science research methods; junior standing. (Variable)

### 31F:160(g). Family Assessment and Intervention - 3 hrs.

Exploration and integration of theoretical and evidence-based practice models and skills utilized in family intervention. Professional skills, strategies, tools and ethical issues associated with family assessment and interventions will be examined. Prerequisite(s): 31F:060; junior standing; consent of instructor. (Variable)

### 31F:162(g). Issues in Family Policy - 3 hrs.

Policy making process from a family perspective. Policies, consequences, alternatives, and roles family professionals can play in influencing policy at the local, state, and federal levels. Prerequisite(s): 31F:020; junior standing. (Variable)

### 31F:177(g). The American Consumer - 3 hrs.

Analytical approach to the consumption of durables, goods, services, and housing; developing competencies for consumer decisions and actions in a global economy. Prerequisite(s): junior standing. (Variable)

### 31F:178. Family Life Education - 3 hrs.

Exploration of issues, materials, and methods in family life education; development of concepts and curricula for various age and special needs groups; qualifications of the family life educator. Prerequisite(s): 31F:020; 31F:057; 3 hours social science research methods; senior standing; Family Services majors only; consent of instructor. (Variable)

### 31F:180(g). Problems in Family Services - 1-4 hrs.

Individual topic areas of in-depth study. Prerequisite(s): junior standing; consent of instructor. (Variable)

## **31F (Family Services/Family Studies)/31G (Gerontology)/31I (Interior Design)**

### **31F:182(g). Research in Family Services - 1-3 hrs.**

Conduct supervised research and/or scholarly project. Prerequisite(s): research methods course; junior standing; consent of instructor. (Variable)

### **31F:184(g). Topics in Family Services - 1-3 hrs.**

Selected topics relating to current issues in Family Services. Topics to be announced in the Schedule of Classes. May be repeated on different topics for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

### **31F:190. Professional Practice in Family Services - 3 hrs.**

Professional development course including the following topics: family services as a profession; ethical decisions; diversity in the professional field; issues that emerge in family service agencies; and preparation for internship and entry into employment. Prerequisite(s): 31F:060; Family Services majors only; consent of instructor. (Offered Fall and Spring)

### **31F:191(g). Applied Research Methods - 3 hrs.**

Introduction to qualitative and applied research methods utilized in family studies field. Exploration of associated ethical and practice oriented issues that may emerge in family services-based agencies. Examination of evaluation methods and issues that are utilized in the field. Prerequisite(s): 31F:030 or equivalent; junior standing; consent of instructor. (Variable)

### **31F:195. Internship in Family Services - 9 hrs.**

Supervised experience in approved practicum situation. Transfer students must complete one full semester in residence before being approved for internship. Stipulate a minimum of 400 hours of internship plus seminar. Prerequisite(s): 31F:190; senior standing. (Offered Fall, Spring, and Summer)

### **31F:198. Independent Study in Family Services.**

(Variable)

## **31G (Gerontology)**

### **31G:170(g). Long Term Care Administration - 3 hrs.**

Study of long term care administration including social services, dietary, legal aspects; nursing; environmental services, activities/community resources; business administration; administrative organization, and human resource management. Prerequisite(s): 6 hours gerontology core courses (two of the following four courses - 31F:150, 400:173, 410:125, 980:125); junior standing. (Variable)

### **31G:184(g). Topics in Gerontology - 1-3 hrs.**

Selected topics relating to current issues in gerontology. Topics to be announced in the Schedule of Classes. May be repeated on different topics for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

### **31G:192(g). Research in Gerontology - 1-3 hrs.**

Conduct supervised research and/or scholarly project. Prerequisite(s): research methods course; junior standing; consent of instructor. (Variable)

### **31G:193. Internship Seminar - 1 hr.**

Process seminar to focus on and maximize student learning from their internship experiences and aid in their development of professional practices. May be repeated for maximum of 2 hours. Corequisite(s): 31G:195 or 410:168 or 980:184. (Same as 410:193) (Variable)

### **31G:194(g). Problems in Gerontology - 1-4 hrs.**

Individual topic areas of in-depth study. Prerequisite(s): junior standing; consent of instructor. (Variable)

### **31G:195. Internship in Gerontology.**

Supervised experience in approved work situation. Transfer students must complete one full semester in residence before being approved for internship. Sec. 1. Social Sciences track - 3 hrs. Prerequisite(s) or corequisite(s): 31G:193 (Variable) Sec. 2. Long Term Care track - 1-12 hrs. May be repeated for maximum of 12 hours. Corequisite(s): 31G:193. (Variable)

### **31G:198. Independent Study in Gerontology.**

(Variable)

## **31I (Interior Design)**

### **31I:061. Design Foundations - 3 hrs.**

Introduction to design elements and principles and their application to applied and fine arts. Attention to materials techniques and evaluation. Development of individual perception of design processes within interior design context. (Offered Fall and Spring)

### **31I:063. Drafting I - 3 hrs.**

Introduction to architectural drafting; emphasis on drawing as a visual communication medium in the field of interior design. Development of drafting skills as a graphic language. Prerequisite(s) or corequisite(s): 31I:061. (Offered Fall)

### **31I:064. Drafting II - 3 hrs.**

Emphasis on three-dimensional graphic representation in the field of interior design. Includes introduction to the computer. Prerequisite(s): 31I:063. Corequisite(s): 31I:066; 31I:125; declared Interior Design majors only. (Offered Spring)

### **31I:065. Introduction to Interior Design - 3 hrs.**

Survey of the social, functional, and aesthetic aspects of choosing and furnishing a residential environment. No credit for Interior Design majors if taken after 31I:063. (Variable)

### **31I:066. Design I - 4 hrs.**

Design and presentation skills developed through studio experiences in various media. Emphasis on perceptual and conceptual development in two and three dimensions. Corequisite(s): 31I:125; declared Interior Design majors only. Prerequisite(s) or corequisite(s): 31I:064; (Offered Spring)

### **31I:067. History of Interiors I - 3 hrs.**

Styles of furnishings, interiors, and architecture from antiquity to the mid-19th century. (Offered Fall)

### **31I:068. History of Interiors II - 3 hrs.**

Styles of furnishings, interiors, and architecture from the mid-19th century to the present and their use in homes; current trends and designers. Prerequisite(s): 31I:067. (Offered Spring)

### **31I:075. Computer Applications for Interior Design - 3 hrs.**

Advanced computer-aided design using AutoCAD and other related software in the field of interior design. Prerequisite(s): 31I:064. (Offered Fall)

### **31I:125. Design II - 4 hrs.**

Interior design materials, structural components, building and mechanical systems, and lighting design. Prerequisite(s) or corequisite(s): 31I:064; 31I:066; declared Interior Design majors only. (Offered Spring)

### **31I:126. Design III - 4 hrs.**

Residential design. Programming, space planning, life safety issues, conceptualization, problem solving, and presentation. Includes special populations and purposes. Prerequisite(s): 31I:125. Corequisite(s): 31I:129. (Offered Fall)

### **31I:127. Design IV - 4 hrs.**

Non-residential. Programming, space planning, life safety issues, conceptualization, problem solving, and presentation. Includes special populations and purposes. Prerequisite(s): 31I:126. (Offered Spring)

### **31I:128. Design V - 4 hrs.**

Complex residential/non-residential design problems incorporating applied research methods. Prerequisite(s): 31I:127. (Offered Fall)

### **31I:129. Interior Design Standards - 2 hrs.**

Standards set by the profession for entry-level positions in Interior Design. Corequisite(s): 31I:126. (Offered Fall)

### **31I:164. Professional Practice of Interior Design - 3 hrs.**

Profession and practice of Interior Design. Development of credentials and portfolio for job market entry. Prerequisite(s) or corequisite(s): 31I:128. (Offered Fall)



**311:184(g). Topics in Interior Design - 1-3 hrs.**

Selected topics relating to current issues in Interior Design. Topics to be announced in the Schedule of Classes. May be repeated on different topics for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

**311:192(g). Research in Interior Design - 1-3 hrs.**

Conduct supervised research and/or scholarly project. Prerequisites: research methods course; junior standing; consent of instructor. (Variable)

**311:194(g). Problems in Interior Design - 1-4 hrs.**

Individual topic areas of in-depth study. Prerequisite(s): junior standing; consent of instructor. (Variable)

**311:195. Internship in Interior Design - 4 hrs.**

Supervised experience in approved work situation. Transfer students must complete one full semester in residence before being approved for internship. Prerequisite(s): all course work must be completed. (Offered Fall, Spring, and Summer)

**311:198. Independent Study in Interior Design.**

(Variable)

**31T (Textile and Apparel)****31T:011. Computer Textile and Apparel Design Foundations - 3 hrs.**

Introduction to computer aided design (CAD) software (U4ia, FB Designer [formerly KaratCAD], Adobe Photoshop, Adobe Illustrator, and Adobe Streamline) to investigate the elements and principles of design as applied to textiles and apparel. Prerequisite(s): 31T:012. (Offered Fall)

**31T:012. Creative Textile and Apparel Design Foundations - 3 hrs.**

Investigation of elements and principles of design as they apply to textiles and apparel. (Variable)

**31T:013. Introduction to Textile Materials - 3 hrs.**

Fundamentals of textiles as related to the production, sale, and use of apparel, interiors, and other products. Laboratory experiences related to the identification of fibers, yarns, and fabrics. (Offered Fall and Spring)

**31T:014. Apparel Design and Evaluation - 3 hrs.**

Introduction to and development of apparel design, flat pattern, construction, tailoring, and couture skills to create and evaluate original apparel garments. Prerequisite(s): 31T:012; 31T:013. (Offered Spring)

**31T:015. Multicultural Aspects of Apparel Design - 3 hrs.**

Exploration of multicultural aesthetic and technical aspects of apparel design and assembly to create sample books, and apparel garments and accessories. (Variable)

**31T:020. Introduction to the Textile and Apparel Industry - 3 hrs.**

Overview of the structure of the textile and apparel industry. (Offered Fall and Spring)

**31T:100. Computer Applications for the Textile and Apparel Industry - 3 hrs.**

Apparel industry-based software (U4ia, FB Designer [formerly KaratCAD], Adobe Photoshop, Adobe Illustrator, and Adobe Streamline) applied to the areas of textile and apparel design and product development. Prerequisite(s): 31T:011. (Offered Spring)

**31T:114(g). Dress and Human Behavior - 3 hrs.**

Textiles and apparel in relation to culture, society, and the individual. Survey and application of selected theories. Prerequisite(s): junior standing. (Offered Spring)

**31T:115(g). Apparel Product Development, Merchandising, and Buying - 3 hrs.**

Application of merchandising concepts and buying concepts and procedures for planning, developing, sourcing, and presenting apparel product lines for identified target markets with regard to pricing, assorting, styling, and timing. Prerequisite(s): 31T:020; junior standing. (Offered Fall)

**31T:116. History of Costume - 3 hrs.**

Costume in the western world from ancient times to the present. (Offered Fall)

**31T:119. Fashion Trend Analysis - 3 hrs.**

Analysis of contemporary fashion trends using select theory and forecasting models. Prerequisite(s): 31T:020 (Variable)

**31T:121. Fashion Promotion - 3 hrs.**

Promotion and nonpersonal selling activities within the fashion marketing process. Includes strategies, media selection and use, planning and budgetary processes, publicity, display, special events, and fashion shows. (Offered Spring)

**31T:122. Apparel Product Development, Planning and Design - 3 hrs.**

Apparel products designed and created using a product development process, emphasizing the design process, line development, sourcing materials, costing, and garment production (couture and mass production). Advanced apparel production skills (draping and pattern grading) are further developed within apparel design projects. Prerequisite(s): 31T:014. (Offered Fall)

**31T:123. Textile Structures - 3 hrs.**

Structural and functional aspects of textile yarns and fabrics. Manufacturing techniques are related to physical properties of yarns and fabrics used in apparel and other end uses, with a focus on textile and apparel product development. Prerequisite(s): 31T:013. (Offered Spring)

**31T:124. Quality Assurance for Textile Materials - 3 hrs.**

Focus on quality issues for textile materials used in apparel and other end uses. Discussion of quality theory, as well as textile material performance expectations and methods of predicting performance through physical testing. Prerequisite(s): 31T:013. (Offered Fall)

**31T:184(g). Topics in Textile and Apparel - 1-3 hrs.**

Selected topics relating to current issues in Textile and Apparel. Topics to be announced in the Schedule of Classes. May be repeated on different topic for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

**31T:185. Professional Development: Textile and Apparel - 2 hrs.**

Serves as the program capstone experience. Students study leadership skills, professional ethics, as well as prepare an internship experience. Course culminates with a large-scale group experiential learning project conducted in the field. Prerequisite(s): 31T:014; 31T:115; 31T:121. (Offered Fall)

**31T:192(g). Research in Textiles and Apparel - 1-3 hrs.**

Conduct supervised research and/or scholarly project. Prerequisite(s): research methods course; junior standing; consent of instructor. (Variable)

**31T:194(g). Problems in Textiles and Apparel - 1-4 hrs.**

Individual topic areas of in-depth study. Prerequisite(s): junior standing; consent of instructor. (Variable)

**31T:195. Internship in Textile and Apparel - 4 hrs.**

Supervised experience in approved work situation. Transfer students must complete one full semester in residence before being approved for internship. Prerequisite(s): 31T:011; 31T:012; 31T:013; 31T:014; 31T:020; 31T:100. (Offered Summer)

**31T:198. Independent Study in Textiles and Apparel.**

(Variable)

**330 Industrial Technology****330:008. Manufacturing Materials and Processes - 4 hrs.**

Survey of manufacturing materials, processes, and tooling used to form, separate, fabricate, condition, and finish ferrous, non-ferrous, polymer, ceramic, composite, and/or wood products. Lecture and lab activities. (Offered Fall and Spring)

**330:017. Computer-Aided Design and Drafting - 3 hrs.**

Fundamental concepts and procedures of producing 2D drafting and 3D solid modeling applicable to design and/or drafting in such areas as architecture, communications, electronics, manufacturing, and interior planning. Lab activities using CAD software on microcomputer systems. (Offered Fall, Spring, and Summer-variable)

## 330 Industrial Technology

### **330:018. Construction Resources - 3 hrs.**

Examination of the resources commonly utilized in the construction industry-money, materials, methods, processes, personnel-and their management. (Offered Fall and Spring)

### **330:019. Introduction to Technology Education and Training - 3 hrs.**

Evolution and contemporary approaches in technology education and training. Examination of career opportunities. (Offered Fall)

### **330:020. Communication Systems - 3 hrs.**

Industrial communications techniques, tools, and management strategies associated with design and delivery of messages in organizations. (Offered Fall and Spring)

### **330:022. Communication Technology - 4 hrs.**

Assessment of historical, state-of-the-art communication technologies as tools for exchange of ideas and information. Encompasses digital imaging, printing, publications, wired/wireless communications, technical illustrations, multimedia, and Internet. (Offered Fall and Spring)

### **330:024. Technical Drawing and Design - 4 hrs.**

Fundamentals of product design process including development of engineering drawings (geometric construction, multi-view projections) using 2D drafting software. Use of 3D CAD techniques and dynamic design simulators. Discussion and applications, 4 periods; design lab, 2 periods. Prerequisite(s): must have previous CAD experience. (Offered Fall and Spring)

### **330:025. Construction Graphics - 3 hrs.**

Analysis of the techniques utilized in the designing and developing of specifications and working drawings for commercial construction. Prerequisite(s) or corequisite(s): 330:018. (Offered Spring)

### **330:036. Power Technology - 3 hrs.**

Introduction to energy and mechanical power systems. Lecture and lab cover traditional and emerging electrical power technologies such as renewable energy applications. (Offered Fall)

### **330:037. Introduction to Circuits - 3 hrs.**

Introduction to AC circuits, in-depth DC circuits; current and voltage laws, circuit analysis including series and parallel circuits, inductance, capacitance, introductory magnetism; power calculations and electrical measurements, circuit simulation, troubleshooting techniques. Prerequisite(s): 800:046 or equivalent or consent of instructor. (Offered Fall)

### **330:038. Introduction to Electrical Power and Machinery - 3 hrs.**

Single and polyphase circuits, DC machines, AC single and polyphase synchronous and induction machines, power transformers, introduction to conventional- and renewable-based power systems. Includes lecture and lab projects. Prerequisite(s): 330:037; 330:039 or consent of instructor. (Offered Fall)

### **330:039. Circuits and Systems - 3 hrs.**

AC circuits including j operators, phasors, transformers, reactance, capacitance, impedance, AC resonance, frequency response, passive filters, network theorems and circuit simulation. Lecture and lab. Prerequisite(s) or corequisite(s): 330:037; 800:048 or 800:060; or consent of instructor. (Offered Spring)

### **330:040. Fundamentals of Metal Casting Engineering Technology - 2 hrs.**

Introduction to foundry technologies and careers; evolution, systems, research and development, and planning/control of foundry production; evaluation of all aspects of foundry operations including melting, molding, casting quality, and supervision. (Variable)

### **330:041. Introduction to Analog Electronics - 3 hrs.**

Semiconductor materials, P-N junction, characteristics of electronic devices: junction diodes, photodiodes, LED, Zener diodes, and their applications, BJT and FET transistors, small-signal amplifiers, oscillators, electronic circuit simulation and troubleshooting. Prerequisite(s) or corequisite(s): 330:037; 330:039. (Offered Fall)

### **330:042. Introduction to Digital Electronics - 3 hrs.**

Number systems and codes, digital arithmetic, Boolean algebra, elementary logic gates, combinational logic circuits, sequential logic circuits, logic circuit design and industrial applications, simulation and troubleshooting. Lecture and lab. Prerequisite(s): 330:037; 330:039. (Offered Fall)

### **330:045. Construction Law and Documentation - 3 hrs.**

Examination of construction contract principles, construction documents, and the component parts of law affecting construction operations. Prerequisite(s): 330:025. (Offered Fall)

### **330:055. Graphic Communications Foundations I - 4 hrs.**

Introduction to the concepts and practices of graphic communications including lithographic, screen, gravure, and relief-printing processes. Publication design/layout, image assembly/transfer, finishing and binding. Group collaborative printing projects with digital prepress. (Offered Fall)

### **330:060. Fundamentals of Automated Manufacturing - 3 hrs.**

Flexible and fixed automation systems: transfer lines, CNC programming, robotics, and FMSs. Prerequisite(s): 330:008. (Offered Fall and Spring)

### **330:065. Technology in Society and Organizations - 3 hrs.**

Study of technology in society and the workplace, including selection, utilization, management, impact, and optimization. Focused experiences will facilitate technological literacy. (Offered Fall and Spring)

### **330:070. Digital Prepress - 3 hrs.**

Desktop composition, publishing technologies for developing prepress in a digital environment. Computer design/layout of publications including typography, color management, system configurations and applications. Collaborative projects in publications. (Offered Fall)

### **330:100. Undergraduate Research in Construction Management - 3 hrs.**

Senior group research project pertaining to a topic in construction. Includes an oral and written presentation of the findings, conclusions, and recommendations. Prerequisite(s): 330:154. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Spring)

### **330:101(g). History and Philosophy of Career and Technical Education - 2 hrs.**

Philosophy and historical development, principles, practices, and organization of public career and technical and adult education in the nation. Prerequisite(s): junior standing (Variable)

### **330:102. Living in Our Techno-Social World - 3 hrs.**

Exploration of the complex relationships between technology and society. Students discover how social systems affect the nature and use of technology and how the nature and use of technology affect social systems. Prerequisite(s): junior standing. (Same as CAP:102) (Offered Spring)

### **330:103(g). Electronic Communications - 3 hrs.**

Basic communication concepts including propagation, modulation, demodulation, receivers, transmitters, antennas, transmission lines, digital coding, pulse modulation and other digital/data communication techniques. Introduction to fiber-optic and satellite communications. Lecture and lab. Prerequisite(s): 330:152; 330:156; 800:048 or 800:060; junior standing. (Offered Fall)

### **330:104(g). Applied Digital Signal Processing - 3 hrs.**

Introduction to discrete-time signals and systems, digital sampling theory, discrete Fourier transform, Z transform, and FIR/IIR filter design. Projects and labs based on MATLAB and DSP development kit (TMS320C5510) will be performed. Lecture and lab. Prerequisite(s): 330:156 or 810:041; 810:035 or 810:036; junior standing. (Offered Spring)

### **330:106(g). Geometric Dimensioning and Tolerancing - 2 hrs.**

Geometric conformance and tolerancing theory and application pertaining to ANSI Y14.5M-1994. Prerequisite(s): junior standing. (Variable)

### **330:112. Industrial Projects I - 1 hr.**

Cross-disciplinary teams work to research and develop a project with

industrial partners. Conception phase includes problem identification, product development and testing, cost analysis, and/or process planning. First semester culminates in project proposal. Must register for 330:197 in spring semester. Prerequisite(s): senior standing; 12 semester hours completed in major concentration or consent of instructor. (Offered Fall)

**330:113(g). Manufacturing Tooling - 3 hrs.**

Principles of cutting tools, jigs, fixtures, progressive dies, and gaging; tool geometry, tool life, cost analysis, ergonomics, and safety in tooling design applications. Lecture and lab. Prerequisite(s): 330:008; 330:017; 330:024; 330:132; 330:170; junior standing. (Offered Spring)

**330:114. Product Development and Enterprise - 3 hrs.**

Application of organizational management practices within a simulated product development and enterprise environment. Activities relate to development and enterprising functions such as financing, designing, producing, and marketing a product. Prerequisite(s): 330:008; 330:017 or 330:022 or 330:024; or consent of instructor; junior standing. (Offered Fall)

**330:115. Mechatronics - 3 hrs.**

Basic circuits, electronic devices/systems, communications. Micro-controllers, instrumentation/interfacing, transducers, sensors, DA/AD converters, actuators, relays, solenoids, servomotors, motion converters, gears, cams, belts, chains, Ladder logic, PLCs for mechatronics. Prerequisite(s): 800:046 or equivalent; 880:054 or 880:130. (Variable)

**330:119(g). Computer Applications in Industrial Technology - 3 hrs.**

Review and evaluation of selected software relative to Industrial Technology. Proficiency in computer applications, electronic communications, web-based resources and industrial applications for computers for specific disciplines. Prerequisite(s): junior standing. (Variable)

**330:120. Technology Education Curriculum Planning - 3 hrs.**

Development of programs and courses for technology education and related fields, including content decision-making, delivery strategies, and program evaluation. Prerequisite(s): 330:019; junior standing. (Offered Fall)

**330:121(g). Manufacturing Technology Systems - 3 hrs.**

Applications and analysis of manufacturing systems, including equipment operation, maintenance, and safety. Prerequisite(s): 330:008; 330:017 or 330:022 or 330:024; junior standing. (Offered Spring)

**330:122(g). Advanced CAD and Modeling - 3 hrs.**

Design and development of three-dimensional models, productivity techniques, system customization, and translation of graphic databases using a parametric, solid modeling system. Lecture and lab. Prerequisite(s): 330:017; 330:024; junior standing. (Variable)

**330:123. Machining Principles - 3 hrs.**

Metal cutting machine tools, mechanics of orthogonal cutting, thermal aspects of metal cutting, cutting fluids, tool wear, tool life, machinability, machine tools and their planning, lathe, milling, drilling, grinding, unconventional machining processes. Lecture and lab. Prerequisite(s): 330:008; 330:017; 330:024. (Formerly 330:014) (Offered Spring)

**330:124. Mechanical Systems in Construction - 3 hrs.**

Basic principles, methods, and equipment pertaining to building mechanical systems (heating, cooling, ventilation, and plumbing) related to human health and comfort. Prerequisite(s): 330:045. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Spring)

**330:125(g). Commercial and Heavy/Highway Construction - 3 hrs.**

Examination of systems and operational procedures used to construct commercial, heavy and highway projects. Study of soil mechanics, analysis/design of rigid and flexible pavements for airports and highways. Earthmoving, dewatering, and construction economics. Prerequisite(s): 120:030; 150:080; 330:025; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20

to take 100-level construction management courses or student will be dropped. (Offered Spring)

**330:126(g). Land, Route, and Construction Surveying - 3 hrs.**

Principles of aerial, boundary, land and route surveying including leveling, area and earthwork volume calculation, photogrammetry, traverse computations, building, culvert, pipeline, municipal street, and highway construction. Design and layout of highway curves. Prerequisite(s): 330:018; 330:025; 800:060; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Formerly 330:033) (Variable)

**330:127. Transport Phenomena for Technologists - 3 hrs.**

Application of fluid flow, heat transfer, and diffusion mass transport concepts to material processing including presentation of conduction, convection, radiation, Bernoulli's principles, turbulent flow, and Fick's first and second law of diffusion. Prerequisite(s): 330:008; 330:017; 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing or consent of instructor. (Variable)

**330:128. Electrical Construction Materials and Methods - 3 hrs.**

Basic principles of electricity and materials. Methods of electrical system designs in building construction. Prerequisite(s): 330:045. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Fall)

**330:129(g). Linear Control Systems - 3 hrs.**

Learning open and closed loop control theory, applications to analogies for modeling and design procedures. Introducing sensors, actuators, PID control, analog controllers, and elementary concepts of dynamic performance and stability. Lecture and lab. Prerequisite(s): 330:152; 880:054 or 880:130; junior standing. (Offered Fall)

**330:131(g). Technical Project Management - 3 hrs.**

Project management concepts, needs identification, composition and role of project teams, project communication, related project management techniques, practical implementation, and project management software. Prerequisite(s): junior standing. (Variable)

**330:132(g). Applied Metallurgy - 3 hrs.**

Basic principles of metallurgy, structure, heat treatment, testing and inspection of metals and alloys used in manufacturing. Lecture and lab. Prerequisite(s): 330:008; 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing. (Offered Fall)

**330:134(g). Molding Practices in Metal Casting - 3 hrs.**

Study of molding practices used in contemporary metal casting. Prerequisite(s): 330:008; 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing. (Variable)

**330:135(g). Product Design - 3 hrs.**

Applied manufacturing design process: design teams define, plan and document design project. Concept generation and evaluation, engineering and product performance specifications, costing, production process, and product support. Prerequisite(s): 330:148; 330:172; junior standing. (Offered Spring)

**330:136(g). Melting Practices in Metal Casting - 3 hrs.**

Advanced course in the principles of metal melting systems including selection of furnace types, charge materials, refractory lining applications, energy recovery, and environmental considerations. Prerequisite(s): 330:008; 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing. (Variable)

**330:137(g). Tooling Practices in Metal Casting - 3 hrs.**

Advanced course in the principles of foundry tooling design including selection of pattern materials, rapid prototype development techniques, advanced polymer materials, and design of permanent mold tooling, as well as basic core box production techniques. Prerequisite(s): 330:008;

## 330 Industrial Technology

330:017; 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing. (Variable)

### **330:142(g). Statistical Quality Control - 3 hrs.**

Application of quality concepts to manufacturing environment using statistics, sampling techniques, probability, and control charts. Calculation and interpretation of process capability, design of experiments, and continuous improvement. Prerequisite(s): 330:008; 800:072; junior standing. (Offered Fall and Spring)

### **330:143(g). Managing Manufacturing Systems - 3 hrs.**

Manufacturing functions related to forecasting, project planning, operations cost analysis, plant layout, process planning and control, supply chain management, lean manufacturing, and quality control. Prerequisite(s): 800:072 or 800:172; junior standing. (Offered Fall and Spring)

### **330:144(g). Web Publishing - 3 hrs.**

Development of interactive Web sites with Web authoring tools; identification of targeted audience, Web site management, layout, and maintenance. Prerequisite(s): junior standing. (Offered Fall)

### **330:145(g). Production Planning and Control - 3 hrs.**

Design, analysis, and management of production systems. Topics include: work measurement, methods improvement, demand flow, cost of manufacturing, materials requirement planning (MRP), job/machine scheduling, line balancing, facilities planning, process planning. Prerequisite(s): 330:008; 330:143; junior standing. (Variable)

### **330:147(g). Computer Aided Manufacturing - 3 hrs.**

Advanced programming for CNC machines, machining parameters, machining centers, turning centers, CAM application programs to create part geometry, tool paths, machining parameters, and post process NC code. Prerequisite(s): 330:060; junior standing. (Variable)

### **330:148(g). Machine Design - 3 hrs.**

Principles of design for machine elements, failure analysis, clutches, brakes, dynamic loads, and balancing. Prerequisite(s): 330:008; 330:017; 330:170; junior standing. (Offered Fall)

### **330:149. Construction Estimating - 3 hrs.**

Construction cost analysis techniques for estimating materials, labor, equipment, and subcontracting costs in commercial building construction. Prerequisite(s): 330:045. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. Corequisite(s): 330:124; 330:125. (Offered Spring)

### **330:150(g). Graphic Communications Imaging - 3 hrs.**

Explorations of conventional graphic arts imaging technologies. Screen printing preparation methods, 2 and 3 dimensional printing, and 4 color register printing; emphasis on technical information and laboratory experiences. Prerequisite(s): 330:055; junior standing. (Offered Spring)

### **330:151(g). Computer Integrated Manufacturing - 3 hrs.**

Fundamentals of product processes and operations, computers in manufacturing, computer-aided engineering, computer-aided production, integration of CAD/CAM technologies, computer-aided business, manufacturing systems integration of techniques and strategies. Prerequisite(s): 330:147 or consent of instructor; junior standing. (Variable)

### **330:152(g). Advanced Analog Electronics - 3 hrs.**

Amplifier and oscillator circuits using discrete electronic devices, principle of feedback, ICs - SSI, MSI and LSI, operational amplifiers, electronic circuits using OP-AMPs, measurement and simulation techniques, regulated power supplies, industrial applications of ICs, troubleshooting techniques. Lecture and lab. Prerequisite(s): 330:041; 800:048 or 800:060; junior standing (Offered Spring)

### **330:153(g). Construction Project Planning, Scheduling and Controlling - 3 hrs.**

Further development of estimating expertise in previous courses with emphasis on planning, scheduling, and controlling of construction projects based on the use of CPM and Precedence Programming. Assessment of

computer-aided scheduling and control systems. Prerequisite(s): 330:154; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Spring)

### **330:154(g). Computerized Construction Estimating - 3 hrs.**

Utilization of contemporary and emerging building estimating software and advanced estimating techniques. Prerequisite(s): 330:149; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Fall)

### **330:155(g). Finite Element Analysis - 3 hrs.**

Fundamental concepts of the finite element method for linear stress and deformation analysis of mechanical components. Development of truss, beam, frame, plane stress, and plane strain elements. Practical modeling techniques and use of general-purpose codes for solving practical stress analysis problems. Prerequisite(s): 330:132; 330:170; 800:046 or 800:060; junior standing. (Variable)

### **330:156(g). Advanced Digital Electronics - 3 hrs.**

Arithmetic circuits, sequential logic circuit analysis and synthesis, counters and registers, shift registers, memory devices, digital and analog interfaces, ADC, DAC, and Multiplexing. Introduction to microprocessor architecture. Lecture and lab. Prerequisite(s): 330:037; 330:039; 330:042 or 810:041 or 810:051; 810:030 or 810:035 or 810:036; junior standing. (Offered Spring)

### **330:157(g). Microcomputer Applications - 3 hrs.**

Microcomputer technology applied to real-time industrial problems; survey of industrial computer hardware, networking, and software. Lecture and lab. Prerequisite(s): 330:152; 330:156; 810:030 or 810:035 or 810:036; junior standing. (Offered Fall)

### **330:158(g). Graphic Communications Foundations II - 3 hrs.**

Practices in multiple color stripping and plate-making, and operation of lithographic, single-color presses. Includes finishing and binding, flexography, and gravure. Collaborative projects with digital prepress. Prerequisite(s): 330:055; junior standing. (Offered Spring)

### **330:160(g). Computer-Aided Instrumentation and Interfacing - 3 hrs.**

Computer-aided instrumentation and interfacing; real-time industrial data acquisition hardware and software; sensors, signal conditioning; design and debugging of data acquisition systems using software tools. Lecture and lab. Prerequisite(s): 330:152; 330:156; 330:157; junior standing. (Offered Spring)

### **330:161(g). Digital Graphic Communications - 3 hrs.**

Emphasis on contemporary and future issues in the graphic communications industry. Study of the creation and conversion of graphics for cross-media applications for print and the Internet. Creative problem solving and portfolio development. Prerequisite(s): junior standing. (Offered Fall)

### **330:163(g). Advanced Digital Prepress - 3 hrs.**

Design, layout, and management of complex color publications for a digital workflow environment. Collaboration of the development of digital prepress projects to be coordinated and printed. Prerequisite(s): 330:055; 330:070; junior standing. (Offered Spring)

### **330:164(g). Programmable Logic Controllers (PLCs) - 3 hrs.**

Introduction to PLCs, Basic Modes of Operation Ladder Logic Diagrams, industrial applications, sequencers, bit-wise operations, arithmetic operations, and conditional branching. Lab activities and projects. Prerequisite(s): 330:038; 330:039; 330:041; 330:042; 810:030 or 810:035 or 810:036; junior standing. (Offered Spring)

### **330:165(g). Wireless Communication Networks - 3 hrs.**

Topics include wireless transmission fundamentals, protocols and TCP/IP suites, cellular wireless networks, Mobile IP, wireless LAN technologies, IEEE 802.11 and IEEE 802.15 standards, and security issues in wire-

less networks. Lecture and lab. Prerequisite(s): 330:103 or 810:147; junior standing. (Variable)

**330:166(g). Advanced Electrical Power Systems - 3 hrs.**

Analysis, modeling, simulation, and operation of electrical utility, commercial, and industrial power systems. Voltage-drop calculations, voltage regulation, system protection, faults, and harmonics. Power quality in industrial power systems. Lecture and lab. Prerequisite(s): 330:038; 800:048 or 800:060; 880:054 or 880:130; junior standing. (Variable)

**330:167(g). Power Electronics Applications - 3 hrs.**

Theory and industrial applications of solid-state electronic devices for control and conversion of electrical power. Fundamentals of power computations. Analysis/design of power converter circuits and components: single and 3-phase rectifiers, DC-DC, AC/AC converters, and inverters. Prerequisite(s): 330:038; 330:152; junior standing. (Offered Fall)

**330:168(g). Technology Training Strategies - 3 hrs.**

Developing training programs in technological environments, including analysis and utilization of program planning models for business and industry, and specific strategies for customizing training for various groups within an organization, including synchronous and asynchronous delivery methods. Prerequisite(s): junior standing. (Variable)

**330:169. Digital Imaging - 3 hrs.**

Photographic fundamentals for digital imaging systems. Emphasis on digital cameras and graphic arts imaging technologies for taking and manipulating electronic images. Electronic image manipulation and color correction for print and digital graphic communications. (Offered Spring)

**330:170. Statics and Strength of Materials - 3 hrs.**

Evaluation of force and force resultants, and reporting of material characteristics and strength, and probable usefulness in the construction of structures. Prerequisite(s): 800:048 or 800:060; 880:054 or 880:130. (Offered Spring and Summer-variable)

**330:171. Technical Work Experience - 2 hrs.**

Supervised internship to gain practical occupational experience in the specialty area of approval. May be repeated once. Offered on credit/no credit basis only. Prerequisite(s): 1000 clock hours of approved work experience. (Variable)

**330:172(g). Engineering Materials - 3 hrs.**

Principles and properties of ceramics, polymers, glasses, concrete, wood, asphalt and composites used in construction and manufacturing. Corrosion concepts integrated into course to understand impact on applications of materials. Lecture and lab. Prerequisite(s): 800:048 or 800:060; 860:020 or 860:044; 880:054 or 880:130; junior standing. (Offered Fall and Spring)

**330:173(g). Construction Management - 3 hrs.**

Management concepts in construction: business methods, finance, decision making, labor relations, marketing, quality control, marketing and computer applications. Analysis of office and field problems. Prerequisite(s): 330:154; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Spring)

**330:174. Senior Design I - 1 hr.**

Individual and/or team analytical research or design project. Collaboration with local industry, government agencies, or research institutions is encouraged. Must register for 330:176 in spring semester. Prerequisite(s): senior in EIET major. (Offered Fall)

**330:175(g). Structural Analysis in Construction - 3 hrs.**

Structural analysis of wood, concrete, steel, and composite, finite element analysis of structural members. Emphasis on topics such as the design of form work and scaffolding. Prerequisite(s): 330:170; junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. (Offered Fall)

**330:176. Senior Design II - 3 hrs.**

Development and completion of project identified in 330:174. Prerequisite(s): 330:174. (Offered Spring)

**330:177(g). Advanced Manufacturing Processes - 3 hrs.**

Advanced manufacturing processes in metals and non-metals. Rapid prototyping process and equipment. Routing sheet, operation sheet, and system and cell design. Manufacturing economics, decision-making and justification for manufacturing equipment investment. Prerequisite(s): 330:008; 330:017; junior standing. (Variable)

**330:178(g). Contemporary Instruction in Technology Education - 3 hrs.**

Inquiry into recent applications in instructional strategies and content, including research, development, and management of modular technology instructional systems. Prerequisite(s): 330:190 or consent of instructor; junior standing. (Offered Spring)

**330:180(g). Introduction to Lean Manufacturing - 3 hrs.**

Introduction to lean manufacturing systems and concepts - basic philosophy of reducing waste in areas such as production, processing, inventory, transportation, waiting time, and scrap generation - to improve quality, reduce cost and production time. Prerequisite(s): 330:143; junior standing. (Offered Spring)

**330:181(g). Instructional Design for Career and Technical Education - 2 hrs.**

Basic methods of identifying, analyzing, selecting, and organizing instructional content for career and technical programs. Prerequisite(s): junior standing. (Variable)

**330:182(g). Coordination of Techniques in Career and Technical Programs - 2 hrs.**

Planning, organization, development, and teaching of cooperative or multi-occupational programs in career and technical education. Prerequisite(s): junior standing. (Variable)

**330:183. Fundamentals of Manufacturing Engineering - 3 hrs.**

Application of technical knowledge to solve industrial problems within the functional area of manufacturing engineering. Preparation for examination through the manufacturing Engineering Certification Institute. Prerequisite(s): junior standing or consent of instructor. (Variable)

**330:185(g). Methods Improvement and Quality Control Assurance in Construction - 3 hrs.**

Analysis and evaluation of methods improvement techniques and management of quality assurance and quality control. Prerequisite(s): junior standing. Prerequisite for Construction Management majors: student must have a minimum UNI GPA of 2.20 to take 100-level construction management courses or student will be dropped. Prerequisite(s) or corequisite(s): 330:154. (Offered Fall)

**330:187(g). Applied Industrial Supervision and Management - 3 hrs.**

Investigation of industrial supervision and management; includes directed field study in industry. Prerequisite(s): 150:153 or 330:131 or 330:143 or consent of instructor; junior standing. (Offered Fall and Spring)

**330:188(g). Nanotechnology Fabrication - 3 hrs.**

Developmental analysis of nanotechnological fabrication developments with a focus on nanoparticles, nanoscale devices, production techniques, and their interdisciplinary applications in various industrial fields such as material science, manufacturing, physical sciences, and electronic technology. Prerequisite(s): 860:148 or 880:148; junior standing. (Variable)

**330:190(g). Technology Education Teaching Methods - 3 hrs.**

Methods of teaching in technology education and related fields, including group and individualized instructional strategies. Includes 25 hours of field experience. Need minimum grade of C prior to student teaching. Prerequisite(s): 330:019; 12 semester hours in industrial technology; junior standing. Prerequisite(s) or corequisite(s): for Education majors: 200:128; 200:148. (Offered Spring)

**330:191(g). Implementing Career and Technical Programs - 2 hrs.**

Basic principles of instruction, instructional organization, methods of

## 330 Industrial Technology

presentation, lesson planning, and applications of audio-visual media. Prerequisite(s): junior standing. (Variable)

### **330:192(g). Non-Destructive Evaluation of Materials/Scanning Electron Microscopy - 3 hrs.**

Non-destructive evaluation of materials using such techniques as x-ray, gamma ray, liquid penetrant tests, magnetic particle, eddy currents, SEM, etc. Prerequisite(s): 330:132 or 330:172 or consent of instructor; junior standing. (Variable)

### **330:193(g). Evaluation in Career and Technical Programs - 2 hrs.**

Basic concepts and techniques for evaluating students and programs in career and technical education. Prerequisite(s): 330:181 or consent of department; junior standing. (Variable)

### **330:194(g). Graphic Communications Estimating and Management - 3 hrs.**

Study of traditional and modern management principles. Exploration of software for cost and pricing associated with the printing industry and web-to-print publishing. Development of marketing strategies for variable data printing and ancillary services. Prerequisite(s): 330:055; junior standing. (Offered Spring)

### **330:195(g). Technology Education Program Management - 3 hrs.**

Design of safe and effective facilities for technology education and related fields, facility management, and development of a safety program. Prerequisite(s): 330:120 or 330:190; junior standing. (Offered Fall)

### **330:196(g). Industrial Safety - 3 hrs.**

Examination of the directives mandated by the Occupational Safety and Health Administration. Emphasis on developing and implementing a comprehensive safety and health program. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **330:197. Industrial Projects II - 2 hrs.**

Cross-disciplinary teams work to research and develop a project with industrial partners. Implementation phase includes research, testing, fabrication, and product/process documentation. Second semester culminates in project completion and seminar presentation. Prerequisite(s): 330:112. (Offered Spring)

### **330:198. Independent Study. (Variable)**

### **330:200. Industrial Technology Concepts and Issues - 2 hrs.**

Survey of the major topic areas of industrial technology and the professional issues in the field with the development of a Personal Career Development Plan (PCDP) in respect to those concepts, issues, and concerns. Prerequisite(s): consent of department or instructor. (Variable)

### **330:225. Integrated Logistics and Production Operations - 3 hrs.**

Study of analysis, design, and issues integrating logistics and supply operations in technological organizations. Includes sourcing and supply systems, process/product development activities, supply chain practices and quality considerations. Prerequisite(s): admission to Industrial Technology Graduate Program or consent of instructor. (Variable)

### **330:234. Advanced Engineering Materials - 3 hrs.**

In-depth emphasis of engineering materials focusing on the properties influencing processing and applications of metals, ceramics, composites, and polymers. Also includes discussion on high temperature materials and innovative new materials. Prerequisite(s): admission to Industrial Technology Graduate Program and consent of instructor. (Variable)

### **330:235. Material Transformations and Modeling - 3 hrs.**

Material transformation topics such as solidification science, micro- and macro-segregation principles, fluid flow of Newtonian and non-Newtonian liquids, and advanced solid state transformations are covered and directly correlated to material modeling techniques. Prerequisite(s): admission to Industrial Technology Graduate Program and consent of instructor. (Variable)

### **330:242. Complex Digital System Design - 3 hrs.**

Complex digital systems design at the logic gate level. Basic structure, sub

programs, packages and libraries of VHDL; combinational/sequential logic design with VHDL; VHDL simulation and synthesis, FPGA implementation. Projects and labs using Xilinx Spartan-3 FPGA development kit. Prerequisite(s): 330:156 or graduate program admission or consent of instructor. (Variable)

### **330:244. Applied Embedded Systems - 3 hrs.**

Design and implementation of microcontroller-based embedded computing systems to solve real-world problems. Methodologies, hardware platforms, software design and analysis, embedded OS, real-time scheduling, mixed signal processing, hardware accelerators, low power optimization. Prerequisite(s): 330:157 or Industrial Technology Graduate Program admission or consent of instructor. (Variable)

### **330:248. Advanced Power Electronics - 3 hrs.**

Advanced topics of power electronics, AC circuit modeling/simulation of power converters, transfer functions, feedback controller design, V and I mode control of DC-DC converters, inductor and transformer design, resonant converters, soft switching, inverters, HVDC transmission. Prerequisite(s): 330:167 or Industrial Technology Graduate Program admission or consent of instructor. (Variable)

### **330:250. Technology of Productivity Improvement - 3 hrs.**

Exploration of productivity as an operational concept; analysis of productivity in industrial settings to seek improvement through technical and managerial expertise. Prerequisite(s): admission to graduate standing in industrial technology or consent of instructor. (Variable)

### **330:258. Total Quality Management - 3 hrs.**

Managerial, technological, behavioral, and statistical concepts applied to total quality management. Quality management philosophies, continuous improvement, productivity, and issues affecting quality that apply to manufacturing, service, and technological organizations. Prerequisite(s): program approval and advisor endorsement, or approval of instructor. (Variable)

### **330:260. Occupational Safety and Health Principles - 3 hrs.**

Emphasis on the principles of safety management with focus on elements of an effective safety program, organizing and decision making, safety organization, accident investigation, and situations where programs and techniques of occupational safety training can be developed. Includes hazard analysis and risk assessment, problem analysis and system safety techniques, labor/management safety committee. Prerequisite(s): 330:196 or consent of instructor. (Variable)

### **330:262. Sustainable/Green Building Construction - 3 hrs.**

Technologies and processes used in green building construction including low impact site development, material selection, energy efficiency in heating/air conditioning and lighting. Water conservation and reclamation. Prerequisite(s): 330:153. (Variable)

### **330:265. Risk Analysis and Management in Construction - 3 hrs.**

Cost concepts, comparison of alternative investments, economic analysis of projects in public sector, break-even and sensitivity analysis, risks and uncertainty in project investments, and decision models. Prerequisite(s): 330:125; 330:185. (Variable)

### **330:273. Machining Process Planning - 3 hrs.**

Survey of various methods of metal removal, mechanics of orthogonal cutting, thermal aspects of metal cutting, cutting fluids, tool wear, tool life, machinability, machining economics, abrasive machining processes, high speed machining, ultra-precision machining and hard turning. Prerequisite(s): 330:123 or consent of instructor. (Variable)

### **330:275. Advanced Lean Manufacturing - 3 hrs.**

Development of skills and techniques in applying lean manufacturing to service and industrial settings. Topics include lean enterprise, product development, supplies network, JIT tools, Theory of Constraint, and value stream mapping. Prerequisite(s): 330:180 or consent of instructor. (Variable)

### **330:282. Industrial Technology Seminar - 1 hr.**

Selected problems relating to production, communication, and power

systems. May be repeated for maximum of 4 hours. (Variable)

**330:283. Research Prospectus Seminar - 1 hr.**

Supervised writing and research leading to the development and presentation of a prospectus for graduate research. Prerequisite(s): 330:292; advisor approval. (Variable)

**330:284. Industrial Technology - 2 hrs.**

Offered in separate areas as shown in Schedule of Classes. Credit may be earned in more than one area but not repeated in a single area. Requires written consent of instructor. (Variable)

**330:288. Field Study in Industrial Technology: Masters Internship - 3 hrs.**

Supervised practicum in an industrial organization, public service agency, or education setting. A proposal must be approved by department advisor and setting supervisor prior to registration. Prerequisite(s): limited to master's degree candidates; program approval and advisor endorsement. (Variable)

**330:290. Training and Development in Industrial Technology - 3 hrs.**

Systematic application of training to enhance industrial productivity and development of the various techniques and skills to assess training needs, develop and evaluate training programs, and manage the training process in an industrial environment. (Variable)

**330:291. Technical Program Development - 3 hrs.**

Development of skills and techniques in the method of identifying, analyzing, selecting, and organizing instructional content. Consideration for installation, operation and evaluation of a curriculum plan in industrial technology areas. Prerequisite(s): 330:290 or consent of instructor. (Variable)

**330:292. Research Methods in Industrial Technology - 3 hrs.**

Principles of methods and evaluation of research in industrial technology. Individual exploration of possible projects or thesis topics. (Variable)

**330:294. Technological Evolution and Innovation - 3 hrs.**

Overview of technology - its chronological development and evolution. Interrelationships among disciplines and influence of contemporary technology on industry, culture, education, and society. (Variable)

**330:295. Advanced Management and Supervision Technology - 3 hrs.**

Development of knowledge, skills, and advanced application experiences of management technologies utilized in industrial supervision and management. Prerequisite(s): 150:153 or 330:143; 330:187; or consent of instructor. (Variable)

**330:296. Research Design in Industrial Technology - 3 hrs.**

Emphasis on the relationships between theory, planning, research design, instrumentation assessment and administration, data collection and analysis, and the interpretation of findings. Includes critical reviews of previous research and preparation of proposal manuscripts. Prerequisite(s): 250:180; 330:292 or consent of instructor. (Variable)

**330:299. Research (Master's Thesis).**

(Offered Fall and Spring)

**330:300. DIT Post Comprehensive Registration.**

(Offered Fall and Spring)

**330:375. Historical Developments in Industrial Technology - 3 hrs.**

Development of production, communication, and power systems and their influence on society and the environment. Prerequisite(s): consent of instructor. (Variable)

**330:376. Contemporary and Future Developments in Industrial Technology - 3 hrs.**

A study with emphasis on production, communication, and power systems; and their interrelationship with people, society, and the environment. Prerequisite(s): 330:375. (Variable)

**330:377. Readings in Technology and Society - 3 hrs.**

Current readings on technology and society; emphasis on analysis and discussion of the issues. Prerequisite(s): 330:376. (Variable)

**330:378. Technology, Ethics and Leadership - 3 hrs.**

Survey of the issues, values, principles, and ethics of a technological so-

ciety. Emphasis on the leadership principles, behaviors, and normative ethics of the technologist to practice the ethical decision-making process within a technological or institutional organization. Prerequisite(s): admission to graduate program or consent of instructor. (Variable)

**330:388. Doctoral Internship - 6 hrs.**

Offered in education and industry to provide practical experience in teaching, supervision, administration, or management. May be taken once in educational environment and once in industrial environment. Prerequisite(s): consent of advisor; advancement to candidacy; completion of at least 21 semester hours in required core. (Offered Fall and Spring)

**330:399. Research (Doctoral Dissertation).**

Prerequisites: successful completion of 40 credit hours in approved program of study, internship, and approval of dissertation proposal. (Offered Fall and Spring)

## 350 School Library Studies

**350:010. Library Orientation - 1 hr.**

Practical working knowledge of the library and its resources. Open to freshmen, sophomores, and transfer students. (Offered Fall and Spring)

**350:112. Library Information Sources - 1 hr.**

Utilization of indexes, documents, and reference sources in specific subject areas; performance of information searches on specialized topics. Open to juniors/seniors with declared majors. (Not open to School Library Studies majors and minors.) (Offered Fall and Spring)

**350:114(g). Introduction to the School Library Program - 3 hrs.**

Survey of school librarians, functions of the school library, national and state professional guidelines, ethical and legal issues; includes observation and participation in a selected school library. The portfolio created in this course becomes the condition for continuation in the School Library Studies program. This course must be taken in the first semester. Prerequisite(s): junior standing; consent of program coordinator. (Offered Fall, Spring, and Summer)

**350:115(g). Organization of Information - 3 hrs.**

Application of standards of descriptive cataloging and MARC record for manual and automated systems and resource sharing. Examination of number and subject classification schemes and application of Dewey Decimal Classification and appropriate subject headings for school library catalogs. Adaptations of organizational principles for non-book print, non-print media, and computer-assisted information sources. Lecture, 2 hours; lab, 2 hours. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 350:114 or consent of program coordinator. (Offered Fall and Summer)

**350:132(g). Library Resources for Children - 3 hrs.**

Collection management strategies as these relate to resources available in, and accessible from, elementary school libraries, with a focus on resource-based teaching and learning. Role of the school teacher librarian as information specialist. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 350:114 or consent of program coordinator. (Offered Fall)

**350:134(g). Library Resources for Young Adults - 3 hrs.**

Collection management strategies as these relate to resources available in, and accessible from, secondary school libraries, with a focus on resource-based teaching and learning. Role of the school teacher librarian as information specialist. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 350:114 or consent of program coordinator. (Offered Spring)

**350:223. School Library Curriculum Development - 3 hrs.**

Consultant role of the school teacher librarian in curriculum design. Study of curriculum frameworks and the curriculum integration of information process models, PK-12. Prerequisite(s): 350:114; 350:132 or 350:134. (Offered Fall)

## 350 School Library Studies/400 Psychology

### **350:225. Administration of the School Library Program - 3 hrs.**

Management and leadership role of the school teacher librarian, including organizational strategies, planning, and policy development. Should be taken in the final semester of course work. Prerequisite(s): 350:114; 350:223. (Offered Spring)

### **350:230. Library Automation Systems and Networks - 3 hrs.**

Emphasis on computer-related systems and networks in schools and library programs. Planning and implementing systems; on-line network requirements and uses. Prerequisite(s) or corequisite(s): 350:115. (Offered Summer)

### **350:250. Reference Services and Information Retrieval - 3 hrs.**

Collection management strategies as these relate to basic print and electronic reference resources. Introduction to question-negotiation, search strategies, and evaluation of information delivery/approaches and systems. Provision of reference services in school settings. Roles of the school teacher librarian as information specialist and teacher. Lecture, 2 hours; lab, 2 hours. Prerequisite(s): 350:115. (Offered Spring and Summer)

### **350:285. Individualized Readings - 1-3 hrs.**

Directed study of specific issue or problem based on student's needs or aspirations. Prerequisite(s): written consent of instructor. (Offered Fall, Spring, and Summer)

### **350:289. Seminar - 3-6 hrs.**

Critical assessment of the elements of school library services such as Inquiry Learning at the building and system levels. Prerequisite(s): 350:223. (Variable)

### **350:290. Practicum - 2-4 hrs.**

Experience in the function and services of the school library. Prerequisite(s): written consent of instructor. (Offered Fall, Spring, and Summer)

### **350:295. Research in Library and Information Science - 3 hrs.**

Survey of basic research methodologies and critical evaluation of school library research studies. The use of the research process to develop a draft proposal for a research study, or project. Prerequisite(s) or corequisite(s): 350:250. (Offered Spring)

### **350:299. Research.**

Focus on the process of completing the research study, project, or thesis. Must be taken during the semester when the study is completed and may be repeated. Student must enroll in at least 1 credit hour during the semester the study is completed. Prerequisite(s): 350:295. (Offered Fall, Spring, and Summer)

## **400 Psychology**

### **400:001. Introduction to Psychology - 3 hrs.**

Survey of basic principles in psychology. Course requires participation in psychological research; or an alternative acceptable to both students and the department which provides a similar educational experience. (Offered Fall, Spring, and Summer)

### **400:020. Community Service/Experiential Learning - 1-3 hrs.**

Students explore potential career options via volunteer opportunities at an approved location from 3-9 hours per week, after completing training required by the specific agency. Serves as a valuable hands-on learning experience. May be repeated for maximum of 6 hours. Prerequisite(s): 400:001; consent of instructor. (Offered Fall and Spring)

### **400:025. Applied Psychology - 3 hrs.**

Overview of various areas traditionally studied within applied psychology. Topic areas covered include work/occupational psychology, as well as areas related to legal issues, health, environment, education, counseling and abnormal behavior. Prerequisite(s): 400:001. (Offered Fall)

### **400:050. Behavior Modification - 3 hrs.**

Behavioral approach to behavior change based upon learning principles. Emphasizes analysis of ongoing behavior and the means of implement-

ing change in a variety of everyday situations. Prerequisite(s): 400:001. (Offered Fall and Spring)

### **400:060. Psychology of Gender Differences - 3 hrs.**

General overview of the nature and meaning of gender, gender roles, and stereotypes; research on gender similarities and differences; gender development; and the effects of stereotypes and roles. Prerequisite(s): 400:001. (Offered Fall and Spring)

### **400:070. Psychology and Law - 3 hrs.**

Study of psychological theory and empirical research as it relates to the law. Topics include witness memory, suspect identification, lineup procedures, false confessions, lie detection, juror cognition, and jury decision making. Prerequisite(s): 400:001. (Offered Fall and Spring)

### **400:101. Research Methods - 4 hrs.**

Introduction to fundamentals of psychological inquiry. Emphasis on experimental research but all major approaches (correlational, field, clinical, phenomenological) considered. Prerequisite(s): 400:001; must be a declared Psychology major or minor by the starting date of the course. (Offered Fall and Spring)

### **400:102. Psychological Statistics - 4 hrs.**

Introduction to the basic methods of collecting, organizing, and analyzing psychological data. Emphasis on statistical inference (e.g., t tests, F tests, and selected non-parametrics). Provides the student with the basic statistical concepts and skills necessary for the laboratory and survey work and to provide adequate quantitative background for understanding psychological literature. Prerequisite(s): 400:001; 400:101; one college-level mathematics course or consent of instructor. (Offered Fall and Spring)

### **400:106(g). Psychology of Human Differences - 3 hrs.**

Nature and extent of human differences as they apply to an understanding of general psychology of the individual and group differences in a social setting. Prerequisite(s): 400:001; junior standing. (Offered Spring and Summer)

### **400:118(g). History and Systems of Psychology - 3 hrs.**

Survey of the history of psychology. Topics include philosophical influences, schools of thought, biographies of prominent psychologists, methodology, and important studies. Examination of the psychology of science. Prerequisite(s): 400:001; junior standing. (Offered Fall, Spring, and Summer)

### **400:120. Developmental Psychology - 3 hrs.**

Theory and research methods used in the study of development of organisms (especially human); developmental perspective as part of the process of psychological inquiry. Prerequisite(s): 400:001. (Offered Fall and Spring)

### **400:125(g). Child and Adolescent Psychopathology - 3 hrs.**

Overview of childhood problems ranging from minor problems in adjustment to severely disabling disorders; primary focus on research findings relevant to assessment, etiology, prognosis, and management. Prerequisite(s): 400:001; plus any one from 31F:055, 400:120, or equivalent of one of these, or consent of instructor; junior standing. (Offered Fall)

### **400:127(g). Introduction to Neurology - 3 hrs.**

Introduction to basic nervous system structure and function including the neuron, peripheral nervous system, the senses, the brain stem, neural control of movement and coordination, the forebrain and its specific functions, and brief coverage of methods of study and clinical neurology. Prerequisite(s): 400:001; junior standing; written consent of instructor. (Offered Even Springs)

### **400:130(g). Computer Applications for Psychological Research - 3 hrs.**

Computer programming and applications related to psychological research, statistical analyses, and reporting. Prepares students to develop and program computer-based and Internet-based research applications to facilitate psychological research and data collection. Prerequisite(s): 400:001; 400:101; 400:102; junior standing. (Variable)



**400:132. Psychology of Music - 3 hrs.**

Introduction to the scientific study of psychology of music. Topics include physics of sound and psychoacoustics, pitch and rhythm representation, development of musical intelligence, emotion and meaning in music, functions of music in society, and music therapy. Prerequisite(s): 400:001. (Offered Fall)

**400:134(g). Motivation and Emotion - 3 hrs.**

Investigation of the major factors underlying human actions. Topics include hunger and eating, sexual behavior, arousal, attention, performance, sleep and dreams, drug addiction, anger and aggression, and their relation to various emotional states. Prerequisite(s): 400:001; junior standing. (Offered Spring)

**400:142(g). Abnormal Psychology - 3 hrs.**

Definition, classification, and characteristics of abnormal behaviors and major mental disorders. Review of the causes and treatment of major mental disorders. Prerequisite(s): 400:001; junior standing. (Offered Fall, Spring, and Summer)

**400:149(g). Principles of Psychometrics - 3 hrs.**

Exploration of contemporary theories and principles basic to the construction and clinical use of psychological tests. Students will learn how to (a) critically evaluate psychological tests (e.g., self-report and interview methods) and (b) develop and validate self-report instruments, using contemporary psychometric principles and procedures. Prerequisite(s): 400:101; 400:102; junior standing. (Offered Spring)

**400:150(g). Conditioning and Learning - 3 hrs.**

Survey of conditioning and learning including classical conditioning, operant conditioning, conditional discrimination, verbal behavior, and remembering in humans and animals. Emphasis on how the field relates to modern psychology and everyday life. Prerequisite(s): 400:001; 400:101; junior standing. (Offered Spring)

**400:151(g). Memory and Language - 3 hrs.**

Memory topics include theories of memory, memory deficits, and the role of memory in broader cognitive processes. Language topics include theories of language, biological bases of language; and comprehension and production of language. Prerequisite(s): 400:001; 400:101; junior standing. (Offered Fall)

**400:152(g). Sensation and Perception - 3 hrs.**

Examination of relationship between physical world and perception, anatomy and physiology of brain structures responsible for perception, algorithms involved in perception, and development of perceptual processing systems. Focus on the visual system. Prerequisite(s): 400:001; 400:101; junior standing. (Variable)

**400:153(g). Cognitive Psychology - 3 hrs.**

Study of human cognition: obtaining, representing, and organizing knowledge. Topics include pattern recognition, attention, imagery, concepts, and mechanistic assumptions underlying cognitive psychology. Prerequisite(s): 400:001; 400:101; junior standing. (Offered Spring)

**400:154(g). Health Psychology - 3 hrs.**

Overview of the contribution of social, personality, and clinical psychology to: a) an understanding of the psycho-social variables affecting physical illness and disease; b) the development of assessment and intervention strategies for comprehensive illness management and rehabilitation; and c) the promotion and maintenance of health-enhancing behavior. Prerequisite(s): 400:001; junior standing. (Offered Fall and Spring)

**400:155. Biopsychology - 3 hrs.**

Introduction to the biological basis of behavior. Consideration of the roles of brain function, hormones, heredity and evolutionary history as they relate to sex differences, psychopathology, language, emotion, memory, sleep, and sensation/perception. Consideration of basic neuroanatomy and comparative approaches. Prerequisite(s): 400:001 or consent of instructor. (Offered Fall and Spring)

**400:157(g). Industrial Psychology - 3 hrs.**

Processes involved in recruiting, selecting, training, and evaluating employees in all types of organizations; prominent theories and current techniques in use. Prerequisite(s): 400:001; junior standing. (Offered Fall)

**400:158(g). Organizational Psychology - 3 hrs.**

Work motivation, job satisfaction, work group influences, and the structure of work; explores the most influential theories in the field and the most widely-used applications of theories. Prerequisite(s): 400:001; junior standing. (Offered Fall and Spring)

**400:160. Social Psychology - 3 hrs.**

Overview of social psychology. Includes social perception and cognition, attraction and liking, social influence, group dynamics, and attitude formation and change. Prerequisite(s): 400:001. (Offered Fall and Spring)

**400:161. Psychology of Personality - 3 hrs.**

Introduction to major theoretical models of personality and to applications derived from these theories, and an overview of empirical findings in selected topics in personality. Prerequisite(s): 400:001. (Variable)

**400:162(g). Special Topics in Social Psychology - 3 hrs.**

In-depth coverage of an applied topic in social psychology and the design of social psychology research. Students will be required to complete a project, which may or may not include the collection of data, in the topical area. Topics may include, but are not limited to, social cognition, emotion, interpersonal relationships, aggression, persuasion, altruistic behavior, identity and group dynamics. Prerequisite(s): 400:001; 400:101; 400:160; junior standing. (Variable)

**400:163(g). Special Topics in Developmental Psychology - 3 hrs.**

Examination of selected topics within the field of developmental psychology viewed from various theoretical and empirical perspectives. Topics may vary each semester. Prerequisite(s): 400:001; 400:101; 400:120; junior standing. (Offered Spring)

**400:164(g). Psychological Anthropology - 3 hrs.**

Psychological dimensions of sociocultural systems from a cross-cultural perspective. Analysis of universals and cultural variation in cognition, socialization, concepts of the self, emotion, and mental illness. Prerequisite(s): 400:001 or 990:011; junior standing. (*Same as 990:164g*) (Offered Even Springs)

**400:166. Clinical Psychology - 3 hrs.**

Contemporary practice of clinical psychology with emphasis on the theories and techniques of cognitive-behavioral interventions. Prerequisite(s): 400:001. (Variable)

**400:167(g). Gender in Cross-Cultural Perspective - 3 hrs.**

Evolutionary, biological, psychological, cognitive, social, and cultural theories of gender and gender inequality evaluated with respect to cross-cultural data. Prerequisite(s): 400:001 or 980:001 or 990:011; junior standing. (*Same as 980:167g and 990:167g*) (Offered Odd Springs)

**400:170(g). Drugs and Individual Behavior - 3 hrs.**

Survey of the effects/side-effects of all categories of psychoactive drugs on brain, body, and behavior. Covers patterns of use and/or abuse of prescription, non-prescription and street drugs as well as an introduction to drug abuse treatment. Prerequisite(s): junior standing. (Offered Fall and Spring)

**400:173(g). Psychology of Aging - 3 hrs.**

Analysis of the factors affecting adult development and aging. Emphasis on physiological, cognitive, sensory, personality, and interpersonal changes occurring with age. Prerequisite(s): 400:001; junior standing. (Variable)

**400:177. Language and Culture - 3 hrs.**

Examination of how language use shapes and expresses cultural identity. Implications of linguistic diversity for world view, gender and ethnic identity, education, and cross-cultural communication. Prerequisite(s): 400:001 or 980:001 or 990:011. (*Same as 980:177 and 990:177*) (Offered Fall)

## 400 Psychology

### **400:189(g). Seminar in Psychology - 1-3 hrs.**

Provides opportunity to correlate previous course work and knowledge in field of psychology. May be repeated for maximum of 6 hours. Prerequisite(s): 400:001; 400:101 or consent of instructor; 15 hours in psychology; junior standing. (Variable)

### **400:192(g). Practicum in Teaching Psychology - 1-3 hrs.**

Organization and teaching of psychology; student serves as participant-observer, with advance approval, in any 400:xxx course. Prerequisite(s): Psychology GPA 3.00 or higher; B+ or higher in the course for which student will participate; junior standing. (Offered Fall, Spring, and Summer)

### **400:193(g). Research Experience in Psychology - 1-3 hrs.**

Conduct a supervised research or scholarly project. May be repeated for maximum of 6 hours. Highly recommended for students planning to enter graduate programs. Majors with an overall GPA of at least 3.50 may earn departmental honors if their projects are deemed worthy of honors by the department. Prerequisite(s): 400:001; 400:101; 15 hours in psychology; junior standing; consent of instructor. (Offered Fall, Spring, and Summer)

### **400:198. Independent Study - 1-3 hrs.**

Under special circumstances, students may study a topic of interest under the supervision of an individual faculty member. Generally, three hours of independent reading per week per credit hour. Prerequisite(s): consent of instructor. (Variable)

### **400:210. Organizational Consulting and Change Management - 2 hrs.**

General discussion of the nature of organization development and organization change, discussion and developmental exercises in the skills necessary to become a successful consultant/change agent. Prerequisite(s): graduate standing in psychology (Industrial/Organizational emphasis) or consent of instructor. (Offered Fall)

### **400:218. Evolution, Brain and Social Behavior - 3 hrs.**

Emphasis on biological foundations of social behavior, importance of natural selection processes and interplay of genes and environment. Functional significance of genetics, hormones, neurotransmitters on personality, pathology and sex differences. Prerequisite(s): graduate standing in psychology or consent of instructor. (Offered Odd Springs)

### **400:220. Social and Cognitive Development - 3 hrs.**

In-depth, critical analysis of major theories of developmental psychology and their application to practical situations. Discussion of psychoanalytic, ethological, behaviorist, social learning, structural-developmental, and contextual approaches to social and cognitive development. Prerequisite(s): an undergraduate course in developmental psychology; graduate standing. (Offered Even Falls)

### **400:225. Psychopathology - 3 hrs.**

Examination of alternative models of psychopathology with emphasis on genetic, physiological, and developmental determinants of behavior disorders. Review of the empirical literature on the etiology, maintenance, and treatment of disordered behavior. Prerequisite(s): graduate standing in psychology or consent of instructor. (Offered Spring)

### **400:232. Training and Instructional Design - 3 hrs.**

Exploration of recent theories of organization training with emphasis on instructional design. Students will compare and contrast trade approaches to academic approaches to training and will demonstrate competencies in developing and delivering training tools. Prerequisite(s): graduate standing in psychology (Industrial/Organizational emphasis) or consent of instructor. (Offered Fall)

### **400:234. Recruitment and Selection - 3 hrs.**

Focused seminar covering the recruitment and hiring of employees using lectures, discussion of key readings, and directed activities in a HR context. Topics include: recruitment, validity in selection, use of tests in selection, and legal topics. Prerequisite(s): graduate standing in psychology or consent of instructor. (Offered Spring)

### **400:237. Performance Appraisal - 3 hrs.**

Development of criteria and methods for appraising work performance in a variety of organizations. Major topics include job analysis, criterion development, legal considerations, performance appraisal methods, and properties of appraisal data. Prerequisite(s): graduate standing in psychology (Industrial/Organizational emphasis) or consent of instructor. (Offered Spring)

### **400:239. Advanced Statistics - 3 hrs.**

Review of elementary descriptive and inferential statistics, analysis of variance and covariance models, multiple linear regression and the generalized linear model, and specialized topics in multivariate analysis. Prerequisite(s): previous courses in statistics; graduate standing in psychology or consent of instructor. (Offered Fall)

### **400:241. Research Design - 3 hrs.**

Covers the planning and execution of psychological research. Topics include research design, measurement, ethical issues, sources of artifact and bias, data evaluation, and interpretation. Prerequisite(s): 400:239; graduate standing in psychology or consent of instructor. (Offered Spring)

### **400:244. Ethical Issues in Psychological Intervention - 1 hr.**

Review of ethical and professional issues related to practice of clinical psychology, including the role of professional organizations, current APA ethical standards, rights of clients, and obligations and requirements of professionals in clinical psychology. Prerequisite(s): graduate standing in psychology (Clinical Science emphasis). (Offered Spring)

### **400:246. Ethical Issues in Psychological Assessment - 1 hr.**

Review of critical ethical and professional issues related to practice of psychological assessment, including the changing roles of assessment in various clinical populations, the role of ethics in research, and the importance of a multicultural awareness in the practice of clinical psychology. Prerequisite(s): graduate standing in psychology (Clinical Science emphasis). (Offered Fall)

### **400:249. Cognitive and Intellectual Assessment - 3 hrs.**

Introduction to the nature, use, and interpretation of tests for assessing intelligence and other cognitive functions in varied populations in this and other cultures. Prerequisite(s): graduate standing in psychology (Clinical Science emphasis) or consent of instructor. (Offered Fall)

### **400:254. Psychology, Law and Philanthropy - 2 hrs.**

Students will learn about the psychology underlying giving including topics such as altruism and persuasion. Legal and ethical issues will be covered as they relate to philanthropy, including regulation/governance, tax law, and standards for professional conduct. Prerequisite(s): admission into the Philanthropy and Nonprofit Development graduate program. (Variable)

### **400:261. Personality - 3 hrs.**

Comparative study of major personality theories and techniques of personality assessment. Prerequisite(s): graduate standing in psychology or consent of instructor. (Offered Even Springs)

### **400:262. Personality Assessment - 3 hrs.**

Overview of theoretical and empirical issues in the measurement of personality. Examines reliability and validity of projective and actuarial methods of personality assessment, criticism of traditional approaches to personality assessment, and behavior assessment as an alternative to traditional approaches. Prerequisite(s): graduate standing in psychology or consent of instructor. (Offered Spring)

### **400:264. Social Psychology - 3 hrs.**

Covers the major areas of classic and current research in social psychology. Students engage in an in-depth, critical analysis of the research in areas including, but not limited to, conformity, obedience, social norms, social cognition, interpersonal relationships, aggression, and helping behavior. Substantial proportion of the course focuses on social cognition. Examines the socio-historical context of social psychology and the application of social psychological research. Prerequisite(s): an undergraduate

course in social psychology; graduate standing in psychology or consent of instructor. (Offered Fall)

**400:270. Research and Practice of Psychotherapy - 3 hrs.**

Reviews the major theoretical approaches to psychological treatment, covers relevant empirical and clinical issues, and facilitates proficiency in fundamental therapy skills. Prerequisite(s): graduate standing in psychology. (Offered Fall)

**400:272. Evidence Based Treatment - 3 hrs.**

Survey of behavior change strategies documented as effective by a body of supporting psychological research. Comparison of these techniques with non-psychological (drug) treatments as well as with non-empirically supported psychological treatments. Prerequisite(s): graduate standing in psychology or school psychology. (Offered Fall)

**400:285. Readings in Psychology - 1-3 hrs.**

Individualized readings. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

**400:289. Seminar.**

(Variable)

**400:290. Clinical Practicum - 2 hrs.**

Supervised experience as a psychologist-trainee in an appropriate mental health agency/program. May be repeated for maximum of 4 hours. Prerequisite(s): graduate standing in psychology (Clinical Science emphasis); 400:249; 400:262; 400:270 and 400:272 (grade of B or higher in all courses). (Variable)

**400:291. Practicum in Industrial/Organizational Psychology - 2 hrs.**

Applied experience in the field of Industrial/Organizational Psychology. Students will work in a host organization and demonstrate consulting skills through participation in a regional contest. Prerequisite(s): graduate standing in psychology (Industrial/Organizational emphasis). (Variable)

**400:292. Graduate Practicum in Teaching Psychology - 1 hr.**

Preparation for and supervised experience as an introductory psychology instructor. Required course for all first-semester Teaching Fellows; may be taken by graduate students planning to apply for teaching fellowships. May be repeated. Some course work required before the start of first teaching semester. Prerequisite(s): graduate standing in psychology. (Variable)

**400:293. Research in Psychology - 1-3 hrs.**

Conduct a supervised research project. May be repeated for a maximum of 9 hours. Prerequisite(s): graduate standing in psychology; consent of graduate coordinator and instructor. (Offered Fall, Spring, and Summer)

**400:294. Advances and Developments in Social Psychology - 1 hr.**

Seminar involving presentations and discussion of current research in social psychology. May be repeated for a maximum of 4 hours credit. Credit/no credit basis only. Prerequisite(s): graduate standing in psychology (Social Psychology emphasis) or consent of instructor. (Offered Fall and Spring)

**400:299. Research.**

(Offered Fall, Spring, and Summer)

## **410 Health Promotion and Education**

**410:005. Introduction to Public Health - 1 hr.**

Introduction to the public health activities concerned with the protection and care of the community; survey of the major specialties and populations of interest in the public health field. (Offered Fall and Spring)

**410:015. Personal Health - 2 hrs.**

Designed to develop the understandings, attitudes, and practices which contribute to better individual health. (Offered Fall, Spring, and Summer through correspondence study only)

**410:020. Maternal and Infant Health - 2 hrs.**

Introduction to contemporary issues affecting the health of women and children during the prenatal and postnatal period; emphasis on concep-

tion, pregnancy, childbirth, lactation, and early infancy stages. (Offered Even Springs)

**410:060. Medical Terminology - 2 hrs.**

Basic terminology and vocabulary used in medical field; structural organization of the body, major anatomy, medical procedures and instrumentation, and medical specialties. (Offered Fall, Spring, and Summer through correspondence study only)

**410:110. Introduction to Epidemiology - 3 hrs.**

Introduction to the basic principles and methods of epidemiology as a science of public health and medicine. Includes application of statistical methods in public health research. (Offered Fall and Spring)

**410:112. Human Structure and Function - 3 hrs.**

Examination of skeletal, muscular, nervous, endocrine, lymphatic, circulatory, respiratory, digestive, urinary, and reproductive systems. No lab. (Offered Fall)

**410:118. Teaching Aerobics - 1 hr.**

Preparation to teach aerobic activities, including aerobic dance, step and circuit aerobics, and aerobic kick boxing. (Offered Spring)

**410:120(g). Death Education - 2 hrs.**

Examination of the need for death educators to be personally comfortable with thanatology. Knowledge of death concept development among children, methods, and ethical issues related to death education with child and adult populations. Prerequisite(s): junior standing. (Offered Odd Springs)

**410:125(g). Aging and Health - 3 hrs.**

Introduction to basic aging and health concerns of older individuals, and to broader issues of aging, health, and society. Study of aging demographics, biomedical aspects of aging, and selected issues of health and aging. Prerequisite(s): junior standing. (Offered Odd Springs)

**410:128(g). Selected Topics in Women's Health - 3 hrs.**

In-depth development and exploration of selected themes and topics in women's health. Focus on hidden health issues that disproportionately affect women and examination of health issues and prevention programs surrounding adolescent pregnancy, violence, substance abuse, and disordered eating through a feminist developmental perspective. Prerequisite(s): junior standing. (Offered Fall)

**410:131(g). Worksite Health Promotion - 3 hrs.**

Models of delivery of health promotion programs to employee populations. Prerequisite(s): junior standing. (Offered Fall)

**410:135. Elementary School Health Education Methods - 2 hrs.**

Examination of health and health education needs of elementary school children and role of teacher in planning, delivering, and evaluating comprehensive school health education; introduction of instructional methods and materials and their use demonstrated and practiced. (Offered Fall and Spring)

**410:138(g). International Health - 2 hrs.**

Exploration of widely-different disease patterns found between developed and developing countries, and investigation of the complex factors that contribute to poor community health status. Discussion of wellness strategies for populations in developing countries, as well as for minorities, immigrants, low income persons, and other underserved groups within the United States. Prerequisite(s): junior standing. (Offered Fall)

**410:140. Secondary School Health Education Methods - 2 hrs.**

Examination of role of the teacher in planning, delivering, and evaluating health education; introduction of instructional methods and materials and their use demonstrated and practiced. (Offered Spring)

**410:144. Health Education Curriculum - 2 hrs.**

Introduction to existing curricular models and the processes involved in developing materials and the appropriate scope and sequence of learning activities in elementary, middle, and high school health education. (Offered Fall)

## 410 Health Promotion and Education

### **410:145(g). Public Health/Health Promotion Evaluation - 3 hrs.**

Principles, methods, and procedures to evaluate public health and health promotion programs. Prerequisite(s): 250:180 or 800:072 or equivalent; 410:153; 410:176; junior standing. (Offered Fall and Spring)

### **410:146(g). Current Issues in Health - 3 hrs.**

Current health topics affecting individuals, communities, and the nation or world at large. Includes prevention and/or control of negative health effects of the issues covered. Prerequisite(s): junior standing. (Variable)

### **410:147(g). Minority Health - 2 hrs.**

Exploration of public health issues and problems faced by members of minority populations. Includes public health field trips and cultural competency development experiences. Prerequisite(s): junior standing. (Offered Fall)

### **410:151(g). Nutrition for Health Promotion - 3 hrs.**

For junior, senior, and graduate students in health promotion, as well as pre- and para-medical students to provide basic knowledge of the fundamentals of nutrition, related diseases/conditions, and current nutritional issues encountered by health professionals. Priority given to 410, 420, and 430 majors. Prerequisite(s): junior standing. (Offered Spring)

### **410:152. Complementary, Alternative, and Integrative Health - 3 hrs.**

Introduction to the concepts, theoretical basis, evidence-based analysis, and challenges and issues in integrative health and complementary and alternative medical practices (CAM). Integrative, alternative, and complementary medicine covers a broad range of healing philosophies, approaches, and therapies involving the use of holistic or culturally-specific health services and practices in the treatment of illness and disease and embraces an expanded concept of health and illness. Prerequisite(s): junior standing. (Same as CAP:152) (Variable)

### **410:153(g). Public Health Theory and Application - 3 hrs.**

Selected learning and behavior change theories and ethical principles that serve as the foundation for effective public health, health promotion, and health education practice; emphasis on the practical application of these theories and principles in public health program delivery. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **410:155(g). Stress Management - 2 hrs.**

Introduction to stress and stress management, the relationship between stress and disease. Prerequisite(s): Health Promotion major; junior standing. (Offered Spring)

### **410:156(g). Implementing Public Health and Health Promotion Programs - 3 hrs.**

Methods, techniques, and resources used in implementing public health and health promotion programs. Requires field-based work. Prerequisite(s): 410:153; 410:176; junior standing. (Offered Fall and Spring)

### **410:160. Community and Public Health - 3 hrs.**

Examination of the major public health issues facing the U.S. and world population. Investigation of major public health initiatives, public policy, and ethical issues related to public health. Prerequisite(s): junior standing. (Same as CAP:160) (Variable)

### **410:161(g). Global Health Corps Mission - 3 hrs.**

Intensive immersion opportunity to plan, implement, and evaluate a large-scale health promotion program on-site with an underserved community in the U.S. or abroad. Under faculty supervision, students will travel, live, and work among the target population. Offered credit/no credit basis only. May be repeated. Prerequisite(s): 410:167; junior standing. (Offered Odd Falls)

### **410:162(g). Introduction to Women's Health - 3 hrs.**

Survey of contemporary issues in women's health providing a thorough understanding of women's personal health status, needs, and resources; awareness of women's health issues worldwide and the political, cultural, economic, and psychosocial factors which affect the health of women. Prerequisite(s): junior standing. (Offered Odd Falls)

### **410:163(g). Human Diseases - 3 hrs.**

Systemic approach to study of human diseases emphasizing common physical disorders afflicting humans. Emphasis on developmental disorders, inheritance, cardiovascular disease, cancer, infectious diseases, and other common diseases. Current trends in diagnosis, treatment, and preventive measures. Prerequisite(s): 410:112 or both 840:101 and 840:102; junior standing. (Offered Fall and Spring)

### **410:164(g). Health Care and the Consumer - 2 hrs.**

Selection and use of health care products and services, alternative health care, health care insurance systems, consumer protection. Prerequisite(s): junior standing. (Offered Spring)

### **410:165(g). Environmental Health Science - 3 hrs.**

Comprehensive survey of the interaction between human health and the quality and state of the natural environment. Prerequisite(s): junior standing. (Same as 830:165g) (Offered Fall and Spring)

### **410:166(g). Environmental and Occupational Health Regulations - 3 hrs.**

Overview of environmental and occupational safety laws applied to the practice of environmental science. Emphasis on application of the legislation with a focus on regulations. Includes major environmental laws such as the National Environmental Policy Act, Clean Air Act, Clean Water Act, and the Occupational Safety and Health Act. Prerequisite(s): junior standing. (Same as 830:166g) (Offered Odd Springs)

### **410:167(g). Cultural Competency for the Helping Professions - 1 hr.**

Overview of the changing demographics in the United States, and discussion of how culturally competent health care can improve the wellbeing of underserved populations. Provides in-depth training in working in a culturally appropriate manner with multiple diverse populations in Iowa and the United States. Prerequisite(s): junior standing. (Offered Odd Springs)

### **410:168. Field Experience in Health Promotion - 3, 6, or 12 hrs.**

Experience in area of student's career objectives. Offered on credit/no credit basis only. Prerequisite(s): senior standing; consent of Division of Health Promotion and Education Coordinator of Student Field Experiences. (Offered Fall, Spring, and Summer)

### **410:176(g). Planning Public Health/Health Promotion Programs - 3 hrs.**

Social, epidemiological, behavioral, educational, and administrative factors in public health and health promotion. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **410:178(g). Health Advocacy, Social Action and Policy Development - 3 hrs.**

Knowledge and skills related to community organizing, coalition building, conflict resolution, political action, and policy development as these processes relate to public health and health promotion. Prerequisite(s): junior standing. (Offered Fall)

### **410:180(g). Environmental Health, Field Methods, Technology, and Laboratory Applications - 3 hrs.**

Strives to develop understanding and working knowledge of the basic tools of environmental health research and field methods. Students will develop skills and competencies related to basic laboratory methods and safety protocols, sampling, types of environmental epidemiology/health research study designs, and the types of mathematical tools employed by researchers practicing and working in this area. Prerequisite(s): 250:180 or 800:072. (Variable)

### **410:185. Readings in Health Education - 1-4 hrs.**

Credit based on student's proposal; to be determined at time of registration. Written contract will determine appropriate work load under credit guidelines. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

### **410:189. Seminar in Health Promotion - 3 hrs.**

Focus on issues in community health education and the transition from student role to health educator or health promotion specialist role. (Offered Fall and Spring)

**410:193. Internship Seminar - 1 hr.**

Process seminar to focus on and maximize student learning from their internship experiences and aid in development of professional practices. May be repeated for maximum of 2 hours. Corequisite(s): 31G:195 or 410:168 or 980:184. (Same as 31G:193) (Offered Fall, Spring, and Summer)

**410:197(g). Global Health Corps Domestic Practicum - 3 hrs.**

Specialized academic training and supervised field opportunities conducting culturally-appropriate health education programs in the local community with diverse or underserved populations such as refugees, minorities, immigrants, and the indigent. Offered credit/no credit basis only. May be repeated. Prerequisite(s): junior standing. (Offered Odd Springs)

**410:220. Health Determinants - 3 hrs.**

Students will integrate current research, theory, and empirical evidence to develop a better understanding of the determinants of health. Examines social, environmental, and individual determinants of health, and explores the linkages and pathways through which these factors operate. Prerequisite(s): graduate standing in Health Education or Public Health, or consent of instructor. (Offered Odd Springs)

**410:271. Cardiovascular Physiology - 3 hrs.**

In-depth study of the functioning of the cardiovascular and respiratory systems in the diseased and non-diseased state. Major topics include functional anatomy, cardiorespiratory control, arterial pressure, responses to exercise, electrical activity, and the effects of disease processes. (Same as 420:271) (Variable)

**410:285. Readings - 1-4 hrs.**

(Offered Fall, Spring, and Summer)

**410:289. Seminar.**

Course may be repeated for additional credit. (Variable)

**410:290. Philosophy and Ethics of Public Health and Health Promotion - 3 hrs.**

Analysis of philosophical foundations and ethical principles related to public health, health promotion, and health education practice. (Offered Fall)

**410:293. Epidemiology - 3 hrs.**

Principles and methods of epidemiology; understanding research related to the distribution, frequency, and determinants of disease in human populations; focus on chronic and infectious disease epidemiology and selected topics in related epidemiologic fields. (Offered annual - variable)

**410:295. Internship in Health Education - 2-6 hrs.**

Health program experience with agencies other than the college or university. May be repeated once for credit. Prerequisite(s): consent of Division of Health Promotion and Education Coordinator. (Offered Fall, Spring, and Summer)

**410:297. Practicum - 2-3 hrs.**

(Offered Fall, Spring, and Summer)

**410:299. Research.**

Fee assessed separately for laboratory materials and/or binding of thesis/research paper. (Offered Fall, Spring, and Summer)

**410:319. Health Disparities - 3 hrs.**

Overview of the description, occurrence, and determinants of health disparities in the U.S., and discussion of strategies to promote health equity for all. (Offered Odd Falls)

**410:320. Theoretical Foundations of Community and Public Health Education - 3 hrs.**

Theoretical approaches to behavior change in community and public health research and practice; includes factors influencing health behaviors, ethical issues, behavioral interventions, and consideration for special populations. (Offered Even Springs)

**410:389. Health Promotion and Education Seminar - 1 hr.**

Explores various aspects of the Health Promotion and Education graduate program, career responsibilities, and the completion of the dissertation. Intent is to increase understanding of the graduate education process and provide a forum for discussing research topics. Prerequisite(s): doctoral status. (Variable)

**420 Physical Education**

*The six courses (420:011-420:016) provide the development of fundamental skills and instructional techniques in the specified activities. The eleven courses (420:101-420:113) provide for the development of a high level of performance and comprehensive understanding and knowledge pertinent to the specific activity.*

**420:001. (420:Axx series) Physical Education - 1 hr.**

Work may be selected from activities as listed in the Schedule of Classes. Primarily for Liberal Arts Core credit for students admitted prior to Fall 1988. May be repeated. (Offered Fall, Spring, and Summer)

**420:011. Fundamental Physical Activities - Aquatics - 1 hr.**

Primarily for majors and minors in Physical Education. (Offered Fall and Spring)

**420:012. Fundamental Physical Activities - Conditioning - 1 hr.**

Primarily for majors and minors in Physical Education. (Variable)

**420:013. Fundamental Physical Activities - Dance - 1-2 hrs.**

Primarily for majors in Physical Education-Teaching and the Movement and Exercise Science-Dance Education emphasis and for minors in Dance and Physical Education-Elementary Teaching. (Offered Fall and Spring)

**420:014. Fundamental Physical Activities - Gymnastics - 1 hr.**

Primarily for majors and minors in Physical Education. (Variable)

**420:015. Lifetime Activities I - 1 hr.**

Primarily for majors and minors in Physical Education. (Offered Fall and Spring)

**420:016. Lifetime Activities II - 1 hr.**

Primarily for majors and minors in Physical Education. (Offered Fall and Spring)

**420:017. Fundamental Physical Activities - Outdoor/Adventure Pursuits - 1 hr.**

Primarily for majors and minors in Physical Education. (Offered Fall and Spring)

**420:018. Prevention and Care of Injuries for the Physically Active - 2 hrs.**

Principles, practices, and techniques in the prevention and care of injuries for the physically active. Prerequisite(s): 420:024 or 420:050. (Offered Fall, Spring, and Summer)

**420:019. Prevention and Care Laboratory - 1 hr.**

Laboratory experiences in first aid, CPR, and care of injuries for the physically active. Opportunity is provided to become certified in American Red Cross First Aid, and Community CPR. Prerequisite(s) or corequisite(s): 420:018. (Offered Fall, Spring, and Summer)

**420:021. Movement Activities for Children - 2 hrs.**

Developmentally-appropriate physical activities designed to promote the development, refinement, and utilization of fundamental movement actions and concepts during the early through late childhood years. Strategies for selecting and delivering appropriate activities to children. Prerequisite(s) or corequisite(s): 200:017; 200:030. (Offered Fall and Spring)

**420:024. Anatomy and Kinesiology - 3 hrs.**

Attention to the skeleton, the muscular system, and to joint construction. Application to analysis of skills and techniques used in coaching. (For coaching minors.) No credit for students with credit in 420:050 and 420:151. (Offered Fall and Spring)

**420:025. Conditioning Theory and Practice - 2 hrs.**

Theory and practice in training and conditioning of athletes; 2 periods. (For coaching minors.) (Offered Fall and Spring)

## 420 Physical Education

### **420:031. Dance Composition - 2 hrs.**

Application of art principles basic to good choreography; advanced technique and composition. Prerequisite(s): 420:013; two dance activity classes of different styles; consent of instructor. (Offered Odd Falls)

### **420:034. Survey of Dance History - 3 hrs.**

Survey of dance history from primitive times to the present with emphasis on the relationship of dance and dance forms to the societies in which they developed and other art forms and the contributions of leading dance personalities. (Offered Fall and Spring)

### **420:036. Dance Performance - 1-2 hrs.**

Credit for performance in approved dance choreography. May be repeated for credit. Maximum of 2 hours may be used toward the Dance minor. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **420:037. Applied Choreography - 1-2 hrs.**

Credit for approved choreography for dance performances and productions. May be repeated for credit. Maximum of 2 hours may be used toward the Dance minor. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **420:045. Physical Education for the Elementary Grades - 3 hrs.**

Teaching methods and experience in activities; 3 periods. No credit for students with credit in 440:045. Prerequisite(s): 200:030; sophomore standing. (Offered Fall and Spring)

### **420:050. Anatomy and Physiology of Human Movement - 3 hrs.**

Anatomy and physiology of the human body focusing on the muscular and skeletal systems and the cardiovascular system. (Offered Fall, Spring, and Summer)

### **420:053. Physical Activity and Nutrition for Health and Fitness - 3 hrs.**

Identification and programming of physical activities and nutrition life-style practices. Emphasis on the role of physical activity and nutrition in the enhancement of health and fitness in others. Integration of experiential learning activities with cognitive subject matter. Prerequisite(s): 440:010. (Offered Fall and Spring)

### **420:056. Introduction to Motor Behavior - 3 hrs.**

Introduction to the developmental and learning factors which influence the capability to move effectively throughout the life span. Prerequisite(s) or corequisite(s): 400:001. (Offered Fall and Spring)

### **420:060. Lifeguard Training and Instruction - 2 hrs.**

American Red Cross material in Basic Water Safety, Emergency Water Safety Lifeguard Training, and Lifeguard Instruction. Opportunity provided to become certified in the American Red Cross Lifeguarding, Lifeguard Instruction, and Health Services Program which is a prerequisite to becoming an instructor in any area of certification for the American Red Cross. (Offered Fall and Spring)

### **420:061. Water Safety Instruction - 2 hrs.**

Materials related to the certification of instructors for water safety instruction. Any person wishing to teach aquatics is required to complete this course. Certification is possible through this course. (Offered Spring)

### **420:101. Advanced Skill and Coaching Theory - Baseball - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Fall)

### **420:102. Advanced Skill and Coaching Theory - Basketball - 3 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Fall and Spring)

### **420:104. Advanced Skill and Coaching Theory - Football - 3 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Spring)

### **420:105. Advanced Skill and Coaching Theory - Golf - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Variable)

### **420:107. Advanced Skill and Coaching Theory - Soccer - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Spring)

### **420:108. Advanced Skill and Coaching Theory - Softball - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Fall)

### **420:109. Advanced Skill and Coaching Theory - Swimming - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Variable)

### **420:110. Advanced Skill and Coaching Theory - Tennis - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Variable)

### **420:111. Advanced Skill and Coaching Theory - Track and Field - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Spring)

### **420:112. Advanced Skill and Coaching Theory - Volleyball - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Spring)

### **420:113. Advanced Skill and Coaching Theory - Wrestling - 2 hrs.**

Prerequisite(s): beginning class or equivalent skill. (Offered Spring)

### **420:118. Practicum in Coaching - 1-2 hrs.**

Practical experience working with high school coaches; planning and conducting all phases of the program. May be repeated in a different sport for a total of two sports. Prerequisite(s): junior standing; consent of department. (Offered Fall and Spring)

### **420:120. Certified Pool Operators - 2 hrs.**

Administration of programs, personnel, and facilities; includes pool management and maintenance. (Variable)

### **420:121. Sociology and Psychology of Physical Activity - 2 hrs.**

Introduction to the sociological and psychological issues related to physical activity. Practical information for professionals working in either school or non-school settings dealing with persons involved in physical activity. (Offered Fall and Spring)

### **420:122. Psycho-Social Aspects of Competitive Sport - 2 hrs.**

Introductory philosophical aspects of sport; psychological and sociological dimensions of competitive sport. (Offered Fall and Spring)

### **420:123. History of American Sport - 2 hrs.**

Historical development of sport in relation to other institutions and social movements in American society. (Offered Fall and Spring)

### **420:127(g). Organization and Administration of Competitive Sports - 2 hrs.**

Organization, administration, and management of interscholastic, inter-collegiate, and intramural sports programs. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **420:132. Dance Curriculum - 2 hrs.**

Place of dance in the school curriculum: relationships, progressions, and curriculum building. Prerequisite(s): 420:013; two dance activity courses of different styles; consent of instructor. (Variable)

### **420:135. Dance Production and Performance - 2 hrs.**

Application of technical considerations, costume design, accompaniment, and program planning. Practical application of choreography and/or lecture demonstration in a dance form expected. (Variable)

### **420:140. Practicum - 1 hr.**

Experiences working with elementary, secondary, adapted, or dance students in activities involving movement. May be repeated for a maximum of 4 hours. Prerequisite(s): methods course appropriate to area; consent of instructor. (Offered Fall, Spring, and Summer)

### **420:142. Fitness Facilities and Programming - 2 hrs.**

Development of an understanding of state of the art fitness equipment, its uses, set-up, and benefits for a variety of populations and potential programming for such facilities. (Variable)

### **420:146. Movement Notation - 2 hrs.**

Written notation system designed to record and analyze dance and human movement. (Variable)

### **420:151. Applied Kinesiology - 3 hrs.**

Application of principles of mechanics to body movement. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 420:050 or equivalent. (Offered Fall and Spring)

### **420:152(g). Adapted Physical Education - 3 hrs.**

Recognition of postural deviations; exercises for specific body parts; understanding specific disabilities; first aid and emergency care; and the modification of physical activities to meet limitations found in school populations. Prerequisite(s): 420:151; junior standing. Prerequisite(s) or corequisite(s): 200:128. (Offered Fall and Spring)

**420:153. Applied Exercise Physiology - 3 hrs.**

Acute and chronic responses and adaptations of the physiological systems to muscular activity and training. Prerequisite(s): 420:050; junior standing. (Offered Fall and Spring)

**420:154. Psychological Skills for Sport Participants - 2 hrs.**

Understanding of psychological factors which affect performance in competitive sport. Survey of and individualized practice with psychological techniques designed to enhance sport performance. (Offered Fall and Spring)

**420:156. Fitness Assessment and Programming - 3 hrs.**

Assessment of fitness levels and application to fitness programming including remediation of dysfunction in rehabilitation. Prerequisite(s): 420:153. (Offered Fall and Spring)

**420:162. Foundations of Human Movement Study - 2 hrs.**

Study of the human as a mover and the contributions of movement to quality of life. Categories of movement activities and their contribution to life throughout history. Philosophical foundations of movement-related roles and professions. (Offered Fall and Spring)

**420:168. Assisting in Physical Education - 1 hr.**

Assisting departmental instructor in activity classes. May be repeated once for credit. Prerequisite(s): consent of department. (Offered Fall and Spring)

**420:173. Teaching Methods Block - 2 or 5 hrs.**

Curriculum design, including movement education and wellness, through the integration of instructional practices, teaching strategies, knowledge of adaptations to physical activity, and assessment practices. Laboratory experiences will be included in elementary, middle school, and high school levels. Prerequisite(s): Physical Education minor: 200:148; 420:021; 420:056. Physical Education Major-Teaching: 200:148; 420:021; 420:053; 420:056; 420:174; 420:176. (Offered Fall and Spring)

**420:174. Assessment Processes in Physical Education - 3 hrs.**

Concepts of measurement and evaluation; statistical analysis; construction of evaluative instruments; and application of written and performance tests. Prerequisite(s) or corequisite(s): 200:148. (Offered Fall and Spring)

**420:176. Administration and Curriculum Development in Physical Education - 3 hrs.**

Administration of programs in the elementary and secondary schools including budgeting, facilities, legal considerations, and support services. Design, development, and evaluation of curriculum content for grades K-12. Prerequisite(s): 420:162; admission to teacher education program. (Offered Fall and Spring)

**420:185. Readings in Physical Education - 1-4 hrs.**

Individual study in an area of physical education. Credit to be determined at time of registration and to be based on student's proposal. Primarily for majors and minors in Physical Education. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**420:191. Senior Project - 1-6 hrs.**

Individualized study and experiential learning under the supervision of qualified faculty and professionals in the field. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

**420:193. Research Experiences - 1-6 hrs.**

Conducting supervised research in a research team setting or mentoring setting with faculty, with presentation and publication of research as the goal. Topics for research may not duplicate a class project or the undergraduate thesis. May be repeated for maximum of 6 hours. Highly recommended for students planning to enter graduate programs. Prerequisite(s): sophomore standing; consent of instructor. (Offered Fall, Spring, and Summer)

**420:194. Senior Thesis - 2-6 hrs.**

Individualized research involving the selection of an area of inquiry; col-

lection, analysis, and interpretation of data. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

**420:197. Internship in Physical Education - 6-12 hrs.**

Comprehensive practical experience in physical education in which the student applies course work in an agency commensurate with degree option. Offered on credit/no credit basis only. Prerequisite(s): completion of all course work in the option; current certification in Standard First Aid and Community CPR; consent of Internship Coordinator. (Offered Fall, Spring, and Summer)

**420:198. Independent Study.**

(Offered Fall, Spring, and Summer)

**420:200. Computer Applications in Physical Education - 2 hrs.**

Microcomputers and their use in physical education and sports medicine. Fundamentals of programming, data and file management, programmed communication, and survey of available software. Interactive computing for the use of major statistical programs. (Offered Fall)

**420:222. Sport Psychology - 3 hrs.**

Current sport psychology research and its relevance to coaches and athletes. Emphasis on the areas of sport personality, competitiveness, motivation, attention, self-concept, attitudes, competitive anxiety, and goal-setting. Stress management techniques and other psychological skills applicable to the sport setting. (Offered Fall)

**420:230. Curriculum Theory and Design in Physical Education - 3 hrs.**

Investigation of the curriculum development process, standards based curriculum, contemporary models, selection and sequencing of developmentally appropriate content and activities K-college, and coaching curriculum. Intended to meet the needs and interests of K-12 teachers as well as college teacher/coaches. (Variable)

**420:231. Effective Teaching in Physical Education - 3 hrs.**

Study of the skills and techniques that successful teachers use to make classes appropriate and beneficial for students. Discussion of effective discipline, motivation, and planning techniques. Includes techniques for self-study to determine teaching effectiveness and demonstrate student learning. Prerequisite(s): undergraduate methods class. (Variable)

**420:251. Biomechanics - 3 hrs.**

Application of mechanical principles and concepts to human movement; emphasis on analysis of techniques employed in sports. Prerequisite(s): 420:050; 420:151; or equivalents. (Offered Even Falls and Even Springs)

**420:253. Advanced Exercise Physiology - 3 hrs.**

Process of scientific inquiry into exercise physiology and the identification of basic principles to be applied for maximum performance without injury. Discussion, 2 periods; lab, 2 periods. (Offered Fall)

**420:255. Motor Control and Learning - 3 hrs.**

Study and application of research findings to motor learning and the variables which influence it. (Variable)

**420:260. Laboratory Instrumentation and Test Interpretation - 2 hrs.**

Experience in exercise physiology laboratory instrumentation for cardiovascular, metabolic, muscular, and respiratory measurements as well as interpretation of test results. Prerequisite(s) or corequisite(s): 420:253 or consent of instructor. (Offered Fall)

**420:271. Cardiovascular Physiology - 3 hrs.**

In-depth study of the functioning of the cardiovascular and respiratory systems in the diseased and non-diseased state. Major topics include functional anatomy, cardiorespiratory control, arterial pressure, responses to exercise, electrical activity, and the effects of disease processes. (*Same as 410:271*) (Variable)

**420:273. Contemporary Issues in Physical Education and Athletics - 3 hrs.**

Examination and analysis of continuing concerns and issues in the profession. (Offered Spring)

**420:285. Readings in Physical Education - 1-4 hrs.**

(Offered Fall, Spring, and Summer)

## 420 Physical Education/42T Athletic Training

### **420:289. Seminar in Physical Education - 1-3 hrs.**

Special topics as indicated in the Schedule of Classes. May be repeated for credit. (Offered Fall and Spring)

### **420:293. Research Experience in Physical Education - 1-2 hrs.**

Research on problems other than those for the thesis or in regular course offerings. May be repeated for maximum of 6 hours. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

### **420:295. Internship in Physical Education - 1-4 hrs.**

Experience in physical education programs with agencies other than in higher education. Prerequisite(s): consent of Graduate Advisor. (Offered Fall, Spring, and Summer)

### **420:297. Practicum - 1-4 hrs.**

Practical experience in teaching physical education at the college level and/or K-12 level, or community service. May be repeated for credit. Prerequisite(s): consent of Graduate Advisor. (Offered Fall, Spring, and Summer)

### **420:299. Research.**

Fee assessed separately for laboratory materials and/or binding of thesis/research paper. (Offered Fall, Spring, and Summer)

## **42T Athletic Training**

### **42T:023. Introduction to Athletic Training - 2 hrs.**

Introduction to the field of athletic training with emphasis on the history of the National Athletic Training Association, certification guidelines, policies and procedures, risk management, roles and responsibilities of athletic trainers, and common illnesses and injuries. (Offered Spring)

### **42T:024. Introduction to Athletic Training Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:023. Corequisite(s): 42T:028. (Offered Summer)

### **42T:028. Clinical Anatomy - 3 hrs.**

Clinical anatomy of the human body which includes palpation, range of motion assessments, manual muscle testing, neurological testing, and structure identification. Prerequisite(s): 42T:023; admission into the athletic training program. Corequisite(s): 42T:024. (Offered Summer)

### **42T:033. Emergency Care in Athletic Training - 2 hrs.**

The theory, ethics, components, indications, and psychomotor skills of emergency care in athletic training. Prerequisite(s): 42T:023; admission into the athletic training program. Corequisite(s): 42T:034. (Offered Fall)

### **42T:034. Emergency Care in Athletic Training Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:033. Prerequisite(s): 42T:023; admission into the athletic training program. Corequisite(s): 42T:033. (Offered Fall)

### **42T:110. Athletic Training Administration - 2 hrs.**

Theoretical and practical study of organization and administration in the field of athletic training. Prerequisite(s): 42T:023; admission into the athletic training program. (Offered Fall)

### **42T:134. Upper Body Injury Assessment - 2 hrs.**

Recognition and evaluation of athletic injuries occurring to the head, face, vertebral column, shoulder, forearm, wrist, and hand. Prerequisite(s): 42T:023; admission into the athletic training program. Corequisite(s): 42T:135. (Offered Fall)

### **42T:135. Upper Body Injury Assessment Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:134. Prerequisite(s): 42T:023; admission into the athletic training program. Corequisite(s): 42T:134. (Offered Fall)

### **42T:137. Lower Body Injury Assessment - 2 hrs.**

Recognition and evaluation of athletic injuries occurring to the hip, pel-

vis, thigh, knee, leg, and ankle. Prerequisite(s): 42T:110. Corequisite(s): 42T:138. (Offered Spring)

### **42T:138. Lower Body Injury Assessment Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:137. Prerequisite(s): 42T:028; 42T:110. Corequisite(s): 42T:137. (Offered Spring)

### **42T:143. Therapeutic Modalities - 2 hrs.**

Effects, advantages, disadvantages, indications, contraindications, precautions, and the application parameters of therapeutic modalities in injury rehabilitation of the physically active. Prerequisite(s): 42T:023; 42T:024; 42T:028; admission into athletic training program. Corequisite(s): 42T:144. (Offered Fall)

### **42T:144. Therapeutic Modalities Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:143. Prerequisite(s): 42T:023; 42T:024; 42T:028; admission into athletic training program. Corequisite(s): 42T:143. (Offered Fall)

### **42T:157. Therapeutic Exercise - 2 hrs.**

Effects, advantages, disadvantages, indications, contraindications, precautions, and the application parameters of therapeutic exercises in injury rehabilitation. Prerequisite(s): 42T:028; 42T:143; 42T:144. Corequisite(s): 42T:158. (Offered Spring)

### **42T:158. Therapeutic Exercise Clinical Experience - 1 hr.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in 42T:157. Prerequisite(s): 42T:028; 42T:143; 42T:144. Corequisite(s): 42T:157. (Offered Spring)

### **42T:162. Athletic Training Pharmacology - 2 hrs.**

Effects, indications, and contraindications of therapeutic medications as related to the prevention and care of athletic injuries of the physically active. Prerequisite(s): 42T:110. (Offered Spring)

### **42T:170. Athletic Training Pathology - 3 hrs.**

Study of the pathology of orthopedic injuries and conditions that are commonly seen by certified athletic trainers. Prerequisite(s): 42T:110. (Offered Spring)

### **42T:175. General Medical Conditions - 3 hrs.**

Study of general medical conditions and disabilities commonly seen by certified athletic trainers. Prerequisite(s): 42T:110; junior standing. (Offered Fall)

### **42T:178. Current Trends in Athletic Training - 2 hrs.**

Discussion of current topics and trends in the clinical practice and professional development of athletic training. Prerequisite(s): 42T:110. (Offered Fall)

### **42T:180. Athletic Training Seminar - 2 hrs.**

Resume writing, interviewing, and a comprehensive review of the athletic training educational competencies. Prerequisite(s): 42T:110; senior standing. (Offered Spring)

### **42T:210. Pathoetiology and Orthopaedic Assessment I - 2 hrs.**

In-depth study of pathological, etiological, and neuromuscular mechanisms of musculoskeletal injuries with emphasis on advanced orthopaedic assessment techniques of the upper body. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Even Falls)

### **42T:220. Pathoetiology and Orthopaedic Assessment II - 2 hrs.**

In-depth study of pathological, biomechanical, and neuromuscular mechanisms of musculoskeletal injuries with emphasis on advanced orthopaedic assessment techniques of the lower body. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Odd Springs)

### **42T:230. Evidence Based Rehabilitation Practice I - 2 hrs.**

In-depth analysis of current literature, research, case studies, and therapeutic techniques directed toward the rehabilitation of musculoskeletal injuries to the upper body of the physically active. Prerequisites:



NATABOC certification; admission into the athletic training graduate program. (Offered Odd Springs)

**42T:240. Evidence Based Rehabilitation Practice II - 2 hrs.**

In-depth analysis of current literature, research, case studies, and therapeutic techniques directed toward the rehabilitation of musculoskeletal injuries to the lower body of the physically active. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Odd Falls)

**42T:250. Orthopaedic Surgical Interventions - 2 hrs.**

Study of orthopaedic surgical interventions commonly performed for musculoskeletal injuries suffered by the physically active. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Even Springs)

**42T:260. Current Topics in Athletic Training - 2 hrs.**

Discussion of current and future trends in the allied health profession of athletic training. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Odd Falls)

**42T:270. Administration and Leadership in Athletic Training - 2 hrs.**

Theoretical and applied techniques for organizing, administering, and leading athletic training health care programs in various clinical settings. Prerequisite(s): NATABOC certification; admission into the athletic training graduate program. (Offered Even Springs)

**42T:289. Seminar in Athletic Training - 1-8 hrs.**

Special topics in athletic training and/or other allied health professions as indicated in the Schedule of Classes. May be repeated for credit. Prerequisite(s): admitted into the Doctor of Education Rehabilitation Studies intensive study area and/or the Master of Science Athletic Training degree program. (Offered Fall and Spring)

**42T:297. Practicum - 1-4 hrs.**

Practical experience in athletic training which includes, but is not limited to teaching, research, and clinical practice. Prerequisite(s): admitted into the Doctor of Education Rehabilitation Studies intensive study area and/or the Master of Science Athletic Training degree program. (Offered Fall and Spring)

**42T:301. Critical Theories and Practices in Rehabilitation - 3 hrs.**

In-depth examination of current theories and practices relevant to the field of athletic training. Building on foundational theory, students will analyze and critique the clinical practices and philosophies of certified athletic trainers and/or other allied health professionals. Prerequisite(s): admitted into the Doctor of Education Rehabilitation Studies intensive study area. (Variable)

**42T:310. Clinical Teaching Skills in Allied Health Professions - 3 hrs.**

Examination of issues and problems in teaching clinical proficiencies including the roles of clinical instructors, factors affecting teaching and the learning environment, learning over time, course planning, and teaching strategies. Prerequisite(s): admission into the Doctor of Education Rehabilitation intensive study area. (Variable)

## **430 Leisure, Youth and Human Services**

**430:010. Introduction to Leisure, Youth and Human Services - 3 hrs.**

Introduction to leisure, youth and human services profession. Examination of the components of LYHS delivery systems, focusing on programs and services, facilities, populations served, and sources of funding. Field trips required. (Offered Fall and Spring)

**430:020. Leadership in Leisure, Youth and Human Services - 3 hrs.**

Theories, principles, and practices of leisure, youth and human services leadership; techniques and methods of working with individuals and groups. (Offered Fall and Spring)

**430:030. Diversity in Leisure, Youth and Human Services - 3 hrs.**

Overview of interaction of leisure services and the elements of diversity (e.g., race/ethnicity, gender, age, and ability/disability). (Offered Fall and Spring)

**430:050. Principles of Outdoor Recreation - 3 hrs.**

Overview of development, implementation, and evaluation of outdoor recreation programs. Examination of benefits and challenges of outdoor recreation, with focus on outdoor leadership competencies. (Offered Fall)

**430:060. Principles of Nonprofit and Youth Agencies - 3 hrs.**

Principles of the youth and human services profession, including history, philosophy, missions, scope of services, activities, and trends. Special emphases on the affiliate agencies within American Humanics, Inc. umbrella. (Offered Fall and Spring)

**430:070. Principles of Tourism - 3 hrs.**

Investigation of many roles travel and tourism play in contemporary society. Overview of the travel and tourism industry, examination of definitions of travel/tourism, and exploration of the history and development of tourism. (Offered Fall and Spring)

**430:075. Tourism and Leisure Services Promotion - 3 hrs.**

Core concepts of tourism and leisure services marketing including promotion, management, philosophies, planning, environment, research, consumer behavior, and market segmentation. Presents promotion as a function of management, designed as tool to help sustain the industry. (Variable)

**430:110. Programming for Leisure, Youth and Human Services - 3 hrs.**

Introduction to methods and procedures for planning, budgeting, implementing, and evaluating leisure, youth and human service programs. Prerequisite(s): 430:010; 430:020; or written consent of instructor. (Offered Fall and Spring)

**430:114. Management of Leisure, Youth and Human Services - 3 hrs.**

Introduction to factors of managing leisure, youth and human services. Focus on personnel management, legal foundations, policy formulation, budgeting and finance, and organizational behavior. Prerequisite(s): 430:010; 430:020. (Offered Fall and Spring)

**430:121. Philosophical Foundations of Leisure, Youth and Human Services - 3 hrs.**

Examination of historical and philosophical foundations of leisure, youth and human services, including leisure and play theory, leisure behavior and societal issues, leisure and the environment, and application of theories and behavioral concepts required to understand and manage services, activities, and environments. (Offered Fall and Spring)

**430:123. Foundations of Therapeutic Recreation - 3 hrs.**

History, philosophy, and theories of therapeutic recreation; professionalism; factors influencing service delivery. (Offered Spring)

**430:130(g). Theory and Practice of Experiential Education - 3 hrs.**

Theory, history, philosophy, and practice of experiential education. Focus on application in environmental education/adventure settings. Field trip(s) required. Prerequisite(s): junior standing. (Offered Spring)

**430:138(g). Community Planning Workshop - 3 hrs.**

Applied research, project-based course for STEP advanced undergraduate and graduate students. Designed to give applied research and communication skills to function creatively and competently in professional settings. Centers on the design and execution of a cooperative planning project that addresses specific tourism or resource planning issues. (Formerly STEP) Prerequisite(s): junior standing. (Offered Fall and Spring)

**430:140(g). Camp Staff Development - 2 hrs.**

Staff development and program planning principles, methods, and procedures used in the development of camp services. Lecture and lab. Offered on credit/no credit basis only. May be taken for credit for the first 2 hours, subsequent enrollment as audit only. Prerequisite(s): junior standing. (Offered Spring)

**430:141(g). Field Experience in Camp Counseling - 1-6 hrs.**

Supervised counseling experience in an organized camp. May be repeated for maximum of 12 hours. Offered on credit/no credit basis only. Prerequisite(s): junior standing. (Offered Summer)

## 430 Leisure, Youth and Human Services

### **430:143(g). Trends and Issues in Outdoor Recreation - 3 hrs.**

Theory and practical application of current issues, concerns, and trends as they relate to the field of outdoor recreation. Covers some of the historical roots of the American wilderness movement, some of the philosophers who influenced that movement, and some of the major philosophical schools of thoughts that have influenced the way we consider wilderness. Prerequisite(s): consent of Focus Area Advisor; junior standing. (Offered Spring)

### **430:144(g). Camp Management Systems - 2 hrs.**

Actual administration of a camp program. Includes personnel supervision, program implementation, and evaluation of camp system. Lecture and lab. May be repeated for maximum of 6 hours. Offered on credit/no credit basis only. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **430:146(g). Managing Recreation Impacts on the Natural Environment - 3 hrs.**

Comprehensive study of theories, philosophies, methods, and planning strategies used to facilitate efficient and effective management of natural resources for appropriate use by outdoor recreation visitors. Prerequisite(s): junior standing. (Offered Fall)

### **430:150. Management of Nonprofit and Youth Agencies - 3 hrs.**

Principles, problems, and practices of administration for nonprofit youth-serving agencies. Prerequisite(s): junior standing or consent of instructor. (Offered Fall)

### **430:151. Fundraising and Budgeting for Nonprofit and Youth Agencies - 3 hrs.**

Theory and practice of budget development, fundraising and financial control in nonprofit agencies. (Offered Fall)

### **430:154. Human Resource Development for Nonprofit and Youth Agencies - 3 hrs.**

Management and supervision of volunteers, staff, and board members in nonprofit and youth service agencies. Emphasis on nonprofit personnel practices and procedures. (Offered Spring)

### **430:155. Planning Strategies in Nonprofit and Youth Agencies - 3 hrs.**

Examination and evaluation of various planning models used in nonprofit and youth agencies to meet the needs of participants. Emphasis on matching developmental needs to planning strategies and models. Prerequisite(s): junior standing or consent of instructor. (Offered Spring)

### **430:157. Introduction to Youth Development in LYHS - 3 hrs.**

Historical and philosophical foundations of leisure, youth and human services. Survey of practices and values in relation to the growth of youth in leisure, youth and human service settings. Prerequisite(s): consent of instructor. (Offered Fall)

### **430:160(g). Assessment, Programming and Evaluation in Therapeutic Recreation - 3 hrs.**

Methods and techniques used in providing therapeutic recreation to persons with disabilities. Includes field experience. Prerequisites: 31F:055; 430:123; verified First Aid and CPR certification; junior standing. Corequisite(s): 430:167. (Offered Fall)

### **430:163(g). Administrative Practices in Therapeutic Recreation - 3 hrs.**

Knowledge and techniques for management of therapeutic recreation including legal and financial problems, utilization of human resources, and development of public relations. Prerequisite(s): 430:123; 430:160; 430:167; junior standing. (Offered Spring)

### **430:165(g). Leisure, Youth and Human Services Field Experience - 1-6 hrs.**

Supervised observation and leadership experience in a designated LYHS program area. May be repeated for maximum of 12 hours. Offered on credit/no credit basis only. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **430:167(g). Intervention Techniques in Therapeutic Recreation - 3 hrs.**

Appropriate activity, leadership, and adaptation techniques. Includes field experience. Prerequisite(s): 31F:055; 430:123; junior standing. Corequisite(s): 430:160. (Offered Fall)

### **430:168(g). Areas and Facilities for Leisure, Youth and Human Services - 3 hrs.**

Planning, designing and managing park, recreation and leisure settings, areas, and facilities. Prerequisite(s): 430:110 or consent of instructor; junior standing. (Offered Fall)

### **430:169(g). Research and Evaluation in Leisure, Youth and Human Services - 3 hrs.**

Introduction to research, evaluation, needs assessment concepts, procedures, and analyses in leisure, youth and human services. Prerequisite(s): 430:110; junior standing. (Offered Fall and Spring)

### **430:170(g). Eco, Adventure and Sport Tourism - 3 hrs.**

Study of special tourism such as eco, adventure and sport tourism. Dynamics of responsible tourist travel that conserves natural environments and sustains the well-being of local people. Definitions, objectives, and profiles of programs involved in eco-tourism, sport and adventure tourism. Field trips required. Prerequisite(s): 430:070 or consent of instructor; junior standing. (Variable)

### **430:171(g). Rural Tourism Development - 3 hrs.**

Promotes student competencies that will enable them to assist rural communities in development of a rural tourism program through an organized planning process. Field trips required. Prerequisite(s): 430:070 or consent of instructor; junior standing. (Variable)

### **430:172(g). Festivals and Special Events Management - 3 hrs.**

Exploration of special events and festivals including their contribution to enhancing the quality of life for local residents and tourists. Study of when, where, why, and how such events are created, planned, and financed; why they are effective. Field trips required. Prerequisite(s): junior standing. (Offered Spring)

### **430:173. Conferences, Expositions and Conventions in Tourism - 3 hrs.**

Exploration of the field of conferences, expositions, and conventions and their niche in the tourism industry. Study of organizational logistics, program development, economic impact, meeting technology, legal issues, employment opportunities, and topics of current interest related to the field. Prerequisite(s): 430:070 or consent of instructor. (Offered Fall)

### **430:183. Professional Leadership Practicum - 2 hrs.**

Practical experience in professional leadership, requiring students to develop, implement and evaluate a peer-advising program. Provides multiple opportunities for students to be significantly involved in the work of the Division of LYHS and the LYHS profession. Prerequisite(s): junior standing; consent of instructor. (Offered Fall and Spring)

### **430:184. Senior Project - 1-3 hrs.**

Programming, resource, or research project to be completed during internship. Written report and oral presentation required after the completion of internship. LYHS majors must register for 3 hours. Prerequisite(s): consent of Internship Coordinator. Corequisite(s): 430:187. (Offered Spring and Summer)

### **430:185. Readings in Leisure, Youth and Human Services - 1-3 hrs.**

Individual reading and literature review in an area of leisure, youth and human services. Credit to be determined at time of registration based on student's proposal. Prerequisite(s): junior standing; consent of instructor. (Offered Fall, Spring, and Summer)

### **430:187. Internship - 8-12 hrs.**

Comprehensive practical experience in leisure, youth and human services. LYHS majors must register for 12 hours. Offered on credit/no credit basis only. Prerequisite(s): senior standing; consent of Internship Coordinator. Corequisite(s): 430:184. (Offered Spring and Summer)

### **430:188(g). Nonprofit Leadership Practicum - 2 hrs.**

Professional development forum to explore professional preparation and

professional practice issues in leisure, youth and human services, with emphasis on American Humanics Program. Presented through a unique series of activities that encourage critical analysis and self-exploration. May be repeated for maximum of 4 hours. Prerequisite(s): junior standing. (Offered Fall and Spring)

**430:189. Seminar - 1-2 hrs.**

Prepares students for internship and future employment in leisure, youth and human service organizations. Focus on development of professional documentation (portfolio, resume, etc.), skills, and internship placement. LYHS majors must register for 2 hours. Prerequisite(s): senior standing; consent of instructor. (Offered Fall and Spring)

**430:201. Social Policy and Issues in Leisure, Youth and Human Services - 3 hrs.**

Examination and analysis of current trends, issues, and social policy confronting practitioners in voluntary/not-for-profit, public, and commercial leisure, youth and human service agencies. (Offered Fall)

**430:202. Social Psychology of Leisure - 3 hrs.**

Exploration of sociopsychological dimensions of leisure as they affect leisure, youth and human service practitioners and agencies, focusing on theories from sociology, psychology, and social psychology. (Offered Spring)

**430:220. Evaluation, Research and Accountability - 3 hrs.**

Survey of advanced nonprofit organization research methods. Research in the area selected by student. Preparation and presentation of research proposal or major paper. Prerequisite(s): admission into the Philanthropy and Nonprofit Development graduate program or consent of instructor. (Variable)

**430:240. Historical and Philosophical Foundations of Leisure, Youth and Human Services - 3 hrs.**

Historical and philosophical perspective for understanding leisure, leisure behavior, and professional practices in leisure, youth and human services. (Offered Fall)

**430:241. Models for Intervention With Youth - 3 hrs.**

Develops understanding of the various models of intervention utilized by professionals who work with youth in youth-serving agencies. (Offered Spring)

**430:244. Youth Development in Nonprofit Organizations - 3 hrs.**

Examination of concepts and theories of youth development, as related to the design of programs and services for positive role development in nonprofit youth organizations. (Offered Fall)

**430:248. Philanthropy and Nonprofit Development: An Overview - 3 hrs.**

Introductory course to the Philanthropy and Nonprofit Development program designed to give broad coverage for professionals and an overview of studies in philanthropy and nonprofit development. Prerequisite(s): admission into the Philanthropy and Nonprofit Development graduate program or consent of instructor. (Variable)

**430:249. Trends and Issues in Philanthropy/Nonprofit Development - 3 hrs.**

Provides a forum for students to learn about and explore the latest trends in giving and nonprofit management. Content will reflect emerging practices and conditions in areas including organizational development, non-traditional revenue sources, donor needs, technology, and professional practice. Prerequisite(s): admission into the Philanthropy and Nonprofit Development graduate program or consent of instructor. (Variable)

**430:250. Management Issues in Leisure, Youth and Human Services - 3 hrs.**

Study of management and administration issues in relation to leisure, youth and human service agencies. (Offered Spring)

**430:251. Financial Decision Making for Youth/Human Service Agencies - 3 hrs.**

Financial function of the nonprofit agency incorporating technical materials applicable to the decision-making role of the agency. (Offered Fall)

**430:253. Fundraising and Grant Writing for Nonprofit Agencies - 3 hrs.**

Comprehensive study of various funding sources and the methodology of nonprofit organizations to secure resources. (Offered Spring)

**430:254. Marketing the Youth/Human Service Agency - 3 hrs.**

Marketing strategies in implementing the exchange relationship between nonprofit organizations and their constituents. (Offered Spring)

**430:256. Personnel Management and Supervision in Youth/Human Services - 3 hrs.**

Elements, processes, and dynamics of personnel management and supervision as it is applied to youth/human services organizations, with an emphasis on nonprofit agencies. (Offered Fall)

**430:260. Strategic Program Management - 3 hrs.**

Examination of concepts and theories of program management in leisure, youth and human services, focusing on analysis of specific programming strategies as they relate to community organization theory using a systems approach. (Offered Fall)

**430:285. Readings - 1-4 hrs.**

(Offered Fall, Spring, and Summer)

**430:291. Internship - 2-6 hrs.**

Practical experience in leisure, youth and human services with community agencies. Prerequisite(s): consent of graduate committee. (Offered Fall, Spring, and Summer)

**430:299. Research.**

Fee assessed separately for laboratory materials and/or binding of thesis/research paper. (Offered Fall, Spring, and Summer)

**430:310. Critical Theories and Practices in Leisure, Youth and Human Services I - 3 hrs.**

In-depth examination of current theories, philosophical foundations, history and current practices relevant to the leisure, youth and human services fields. Building on foundational theory courses, students analyze and critique the organization and design of leisure, youth and human service programs, based on setting and ideological model, in the U.S. and around the world. Students develop praxis design principles consistent with the developmental, normative focus of informal and formal education. Recommended for second year students. Prerequisite(s): 430:202; 430:240; consent of instructor. (Variable)

**430:312. Critical Theories and Practices in Leisure, Youth and Human Services II - 3 hrs.**

Second course in a two-course sequence that surveys leisure, youth and human service practices and theories in a wide variety of out-of-school and co-curricular settings. Covers theories, models, and best practices in the delivery of services. Students analyze and critique the organization and design of leisure, youth and human service programs, based on setting and ideological model, in the U.S. and around the world. Students develop praxis design principles consistent with the developmental normative focus of informal and formal education. Recommended for third year students. Prerequisite(s): 430:310. (Variable)

**430:329. Research and Evaluation Seminar - 1 hr.**

One hour taken each semester for six semesters for total of 6 hours. Applied approach to research and evaluation. Students plan and implement research and evaluation projects in youth development, leisure, and/or human services settings, working with teams of faculty and other students. Course content includes research methods, statistics, and writing for publication. Prerequisite(s): doctoral standing or consent of instructor. (Offered Fall and Spring)

**440 Health, Physical Education and Leisure Services, Interdepartmental**

**440:010. Personal Wellness - 3 hrs.**

Concepts of exercise science, nutrition, stress management, contemporary health issues, and decision making. Assessment, application, and

## 440 Health, Physical Educational and Leisure Services, Interdepartmental/450 Social Work

participation in lifetime fitness and skill activities. (Offered Fall, Spring, and Summer)

### **440:045. Health and Physical Education for Elementary Teachers - 3 hrs.**

Methods and materials in health education and physical education appropriate for children. No credit for students with credit in 410:135 or 420:045. No credit given to Physical Education majors or minors. Prerequisite(s): 200:030. (Offered Fall and Spring)

### **440:120. Technology Integration for the HPELS Professional - 2 hrs.**

Introduction to computer terminology, technology, communication and information systems. Integration of appropriate technology into professional settings within health, physical education and leisure services. Students should have competency in basic computing skills (e.g., introductory level workshops offered by the Center for Educational Technology, or equivalent). Prerequisite(s): declared HPELS major (41x, 42x, 43x). (Variable)

### **440:210. Quantitative Methods in HPELS - 3 hrs.**

Practical statistical applications commonly used in health, physical education, leisure and exercise science with a focus on the analysis and interpretation of data through the use of computer software packages. Prerequisite(s): 250:180 or equivalent (Offered Fall and Spring)

### **440:215. Qualitative Methods in HPELS - 3 hrs.**

Application of qualitative methods of data collection and analysis to topics in athletic training, health promotion and education, physical education, leisure, youth and human services. Prerequisite(s): 220:293 or equivalent (Variable)

### **440:290. Research Methods for Health, Physical Education and Leisure Services - 3 hrs.**

Introduction to processes of research in physical education, emphasis on critical analysis of literature, and identification of viable research projects. (Offered Fall and Spring)

## **450 Social Work**

### **450:041. Social Welfare: A World View - 3 hrs.**

Comparative study of social welfare (social insurance, public welfare, charity and philanthropy, social services, and mutual aid) in the United States, and selected nations from five regions of the world as defined by the International Congress of Schools of Social Work (African, Asian, European, Latin American, and North American regions). (*Same as 900:041*) (Offered Fall and Spring)

### **450:042. Social Services and Social Work - 3 hrs.**

Legal aspects, goals, and values of the social work profession, and roles of the social worker in social service agencies. Prerequisite(s): 450:041 or consent of instructor. (Offered Fall and Spring)

### **450:045. American Racial and Ethnic Minorities - 3 hrs.**

Survey of several American minorities, including Hispanics, Blacks, Asians, and Native Americans. Multi-disciplinary study of these groups with particular emphasis on geographic origins, linguistic traditions and current modes of economic subsistence. Introduction to folkways and mores of each group. (*Same as 900:045 and 980:045*) (Offered Fall and Spring)

### **450:080. Statistics for Social Work - 3 hrs.**

Data-analytic techniques appropriate to social work research. Reasons to learn statistics, measures of central tendency, measures of dispersion and variability, levels of measurement, frequency tables and histograms, percentiles, Z-scores, inferential statistics, p-values, confidence intervals, Type I and Type II errors, chi-square, Pearson, Spearman, and point bi-serial correlations, shared variance, one-way ANOVA, multi-way ANOVA, linear regression, ANCOVA. Introduction to LISREL and basic epidemiological analyses including incidence, prevalence, relative risk, and odds-ratio. Prerequisite: completion of mathematics requirement for the Liberal Arts Core. (Variable)

### **450:091. Social Work Practice I - 3 hrs.**

Analysis of the principal social work methods - casework, group work, and community organization. Prerequisite(s): 450:041; 450:042 (may be corequisite); or consent of instructor. (Offered Fall and Spring)

### **450:102. Conflict Resolution - 3 hrs.**

Survey of social science theory and research in conflict resolution with emphasis on development of less destructive modes of problem solving in social formations. (*Same as 980:102 and 990:102*) (Variable)

### **450:121(g). Mental Deviance and Mental Health Institutions - 3 hrs.**

Study of social factors associated with mental illness, its onset, the organizational context of its care and treatment, and its effects on various societal institutions. Prerequisite(s): 980:001 or 980:060; junior standing. (Variable)

### **450:142(g). Working With Racial and Ethnic Minorities - 3 hrs.**

Examination of values and behaviors related to ethnic group membership and social class. Utilization of such knowledge for problem assessment and intervention. Development of ethnic-sensitive practice skills. Prerequisite(s): 450:041; junior standing. (Variable)

### **450:143(g). Stress and Stress Management in the Helping Professions - 3 hrs.**

Stress and stress management for helping professionals and their clientele. Physiological, psychological, social, and economic factors producing stress. Coping, management, and prevention procedures. Prerequisite(s): junior standing. (Variable)

### **450:144(g). Social Policies and Issues - 3 hrs.**

Policy development and the consequences of policy for social welfare institutions. Frameworks for policy analysis. Planning, program design, and policy decisions for administration of social services. Prerequisite(s): 450:041; 450:042; senior standing. (Offered Fall and Spring)

### **450:163(g). Minority Group Relations - 3 hrs.**

Study of interpersonal and social relations of minority groups within the larger American society. Prerequisite(s): 980:001; junior standing. (Offered Fall and Spring)

### **450:164(g). Human Behavior and the Social Environment - 3 hrs.**

Assessment of applicability of various perspectives of human behavior to social work diagnosis, planning, and intervention; general systems theory serves as organizing framework. Student should have a strong base of courses in human behavior. Prerequisite(s): 31F:055 or 400:120; 840:014 or a course in biology; junior standing. (Offered Fall and Spring)

### **450:171(g). Addictions Treatment - 3 hrs.**

Social, legal, political, and ethical considerations surrounding the use and abuse of alcohol and other drugs. Study of eating disorders and non-substance addictions such as shopping and gambling. Theories of causes and survey of social consequences; various intervention models tested in treating the alcoholic/addict and evaluation of the effectiveness of the treatment approaches. Prerequisite(s): junior standing. (Variable)

### **450:172(g). Human Services Administration - 3 hrs.**

Major concepts, principles, methods, and theories of administration of human services agencies, public and private. Application of systems theories to administration of these agencies. Prerequisite(s): 450:041; junior standing. (Variable)

### **450:173(g). Social Services for the Aged - 3 hrs.**

Social work practice and methods of delivering social service to the aged; critical analysis of current social programs, services, and legislation for the elderly person. Prerequisite(s): 450:041; junior standing. (Variable)

### **450:175(g). Child Welfare Policy and Practice - 3 hrs.**

Review of development of family and children's services and practice, focusing on current services, programs, and social work practice issues. Examination of policies and legislation, emphasizing how such policies affect family functioning and the delivery of services. Prerequisite(s): 450:041; junior standing. (Variable)

**450:184. Field Instruction - 11-15 hrs.**

440 clock hours required. Eleven credit hours may be earned by: (1) 3-1/2 days per week on a semester basis; or (2) full-time for eleven weeks during a semester; or (3) full-time for eleven weeks during the summer. Additional credit hours will require additional clock hours in field instruction. Offered on credit/no credit basis only. Prerequisite(s): 450:042; 450:164; 450:185 and a statistics course; completion of 450:091 and 450:192 with a minimum grade of C in each course; Social Work major; minimum UNI GPA of 2.40; senior standing. (Offered Fall, Spring, and Summer)

**450:185. Social Work Research - 3 hrs.**

Application of research to social work practice including formulation of research questions and hypotheses, strategies of research design, measurement and methods of collecting data, questionnaire construction, data presentation, and report writing. Prerequisite(s): 800:023 or equivalent; 980:080; junior standing. (Offered Fall, Spring, and Summer)

**450:189. Readings in Social Work - 1-3 hrs.**

May be repeated only with consent of department. Prerequisite(s): 6 hours in social work; consent of department. (Offered Fall and Spring)

**450:190. Specialized Field Placement - 1-6 hrs.**

Specialized Field Placement can be designed to meet unique situations; beyond 450:184. Students may elect 1-6 hours credit; 40 clock hours equals 1 credit hour. Student may enroll for maximum of 18 credit hours in a combination of 450:184 and 450:190. Prerequisite(s): 450:192; minimum UNI GPA of 2.40. Enrollment by consent of the Field Coordinator only. (Offered Fall and Spring)

**450:192. Social Work Practice II - 3 hrs.**

Intermediate level, generic social work practice theory and skills, and task-centered intervention. Prerequisite(s): Social Work major; completion of 450:091 with a minimum grade of C; minimum UNI GPA of 2.40. (Offered Fall and Spring)

**450:193(g). Therapeutic Communication - 3 hrs.**

Human communication relevant to effective behavior change in the therapeutic relationship. Experiential learning in the core therapist facilitative conditions. Survey of approaches to practice. Prerequisite(s): 450:192; junior standing. (Variable)

**450:194(g). Seminar in Social Work - 3 hrs.**

In-depth exploration of an advanced topic in social work practice or social welfare policy. May be repeated once on different topic. Prerequisite(s): junior standing. (Variable)

**450:195(g). Family and Group Practice - 3 hrs.**

Family, family network, and group work intervention skills. Prerequisite(s): 450:192; junior standing. (Variable)

**450:196(g). Community and Organizational Practice - 3 hrs.**

Advanced study of planned social change within communities and organizations. Emphasis on social welfare agency environments and issues. Prerequisite(s): 450:192; junior standing. (Offered Fall and Spring)

**450:210. Foundation Practicum I - 3 hrs.**

Practicum placement for first year M.S.W. students, fall semester. 150 clock hours required; concurrent with classes. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor. (Offered Fall)

**450:211. Foundation Practicum II - 5 hrs.**

Practicum placement for first year M.S.W. students, spring semester. 250 clock hours required; concurrent with classes. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): 450:210. (Offered Spring)

**450:212. Human Behavior and the Social Environment Micro - 3 hrs.**

Overview of systemic factors that shape behavior across the life span of the individual with particular attention to diversity and oppressed populations. Examination of person-environment interactions as they relate to

generalist social work. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor. (Offered Spring)

**450:213. Human Behavior and the Social Environment Macro - 3 hrs.**

Integrates environmental systems as a framework for generalist social work practice. Emphasis on macro systems-groups, organizations, communities, and societal and global influences. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor. (Offered Fall)

**450:214. Social Work Practice I - 3 hrs.**

Introduces foundation core of the generalist social work practice approach. Develops practice skills in context of social work values and ethics. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor. (Offered Fall)

**450:215. Social Work Practice II - 3 hrs.**

Builds on 450:214 addressing social work practice from a generalist perspective and includes mezzo-system knowledge and intervention skills for working with small groups and families. Prerequisite(s): 450:214. (Offered Spring)

**450:216. Social Work Practice with Organizations and Communities - 3 hrs.**

Generalist social work practice model applied to macro systems: organizations and communities. Analysis of systems, macro practice issues, change strategies, impacts on human diversity populations at risk, and social and economic justice addressed in the context of social work values and ethics. Prerequisite(s): 450:214. (Offered Spring)

**450:218. Introduction to Social Work Research - 3 hrs.**

Overview of basic concepts used by social workers in applied research. Enables students to read and understand social work research literature and conduct basic social work research. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor and completion of a college level course in statistical methods. (Offered Fall)

**450:219. Social Welfare Policy and Services - 3 hrs.**

History and current patterns of social welfare policy and services. Analysis of policies and policy-making process. History and philosophy of social work profession. Role of policy in maintenance or attainment of optimal health and well being and social and economic justice. Prerequisite(s): admission to graduate program in Social Work or written consent of instructor. (Offered Fall)

**450:230. Injustice and Oppression - 3 hrs.**

Examination of the psychological, social, and economic genesis of the conditions, dynamics, and consequences of social and economic injustice. Social work commitment of advocacy in addressing social and economic injustice and institutionalized oppression. Prerequisite(s): admission to graduate program in Social Work or consent of instructor. (Offered Summer)

**450:239. Advanced Standing Graduate Seminar - 4 hrs.**

Variable content covered in the first year of the program which is not typically addressed in accredited baccalaureate programs, and which prepares advanced standing graduate students for their entry into the second year of the M.S.W. program. Prerequisite(s): admission to graduate program in Social Work. (Offered Summer)

**450:240. Advanced Micro Practice Practicum I - 5 hrs.**

Fall semester practicum for second year M.S.W. Micro Practice concentration students. 250 clock hours required; concurrent with classes. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall and Summer)

**450:241. Advanced Micro Practice Practicum II - 5 hrs.**

Practicum placement for second year M.S.W. Micro Practice concentration students, spring semester or summer. 250 clock hours required; con-

## 450 Social Work/48\_ Communication Studies

current with classes or summer following second year classes. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): 450:240. (Offered Spring and Summer)

### **450:242. Approaches to Advanced Micro Practice - 3 hrs.**

Advanced social work assessment, planning, intervention and evaluation skills, familiarity with selected social work assessment and intervention systems, including person-in-environment and strengths perspectives, and relevant research on practice. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall)

### **450:243. Advanced Social Work Practice with Groups - 3 hrs.**

Application of knowledge of small group structure and dynamics to social work intervention using groups as a medium for individual change and growth as well as facilitation of groups. Differential social work group practice with diverse populations. Prerequisite(s): Completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall)

### **450:244. Advanced Social Work Practice with Families - 3 hrs.**

Development of advanced social work practice skills, techniques, and interventions with families, building on the core foundation of generalist social work practice. Special attention is given to culturally-diverse and rural families. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Spring)

### **450:250. Advanced Social Work Research - 3 hrs.**

Evaluation of direct social work practice and social service programs. Qualitative research methods; single system design, quantitative program evaluation; quasi-experimental design, the use of observation, interviewing, participatory evaluation, and user-controlled evaluation. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall)

### **450:255. Social Welfare Policy Analysis - 3 hrs.**

Analysis of current social welfare policies and programs and the institutions designed to implement them. Overview of selected methods of policy analysis; detailed examination of one method of analysis. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Spring)

### **450:260. Advanced Social Administration Practicum I - 5 hrs.**

Practicum placement for second year M.S.W. Social Administration concentration students, fall semester. 250 clock hours, concurrent with classes. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall and Summer)

### **450:261. Advanced Social Administration Practicum II - 5 hrs.**

Practicum placement of second year M.S.W. Social Administration concentration students, spring semester or summer. 250 clock hours. Practicum established by arrangement with Department of Social Work Field Director. Offered on credit/no credit basis only. Prerequisite(s): 450:260. (Offered Spring and Summer)

### **450:262. Administrative Social Work Practice - 3 hrs.**

Development of skills to manage human service organizations. Organizational theory, strategic planning, board development, supervision and personnel management, budgeting and financial management, case management and collaboration, and cultural diversity. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Fall)

### **450:263. Grant Writing, Fund Raising, and Contracting - 3 hrs.**

Securing funding for human service agencies and programs. Grant writing to private foundations and public agencies, fund-raising from individuals and corporations, planning and implementing comprehensive fund-raising programs, and developing service contracts. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Offered Spring)

### **450:264. Organizational Development and Networking - 3 hrs.**

Review of research literature on organizational development, examination of the processes and problems endemic to human service organizations, staff skill development, and networking. (Offered Fall)

### **450:280. Crisis Intervention - 3 hrs.**

Introduction to the theoretical foundations and social work practice techniques of crisis intervention. Life events that often trigger crisis, coping mechanisms, and social work practice techniques. Prerequisite(s): 450:214 or completion of 450:239. (Variable)

### **450:281. Case Management - 3 hrs.**

Examination of the current state of managed care in social service and health delivery systems. Accountability, continuity-of-care, assessing community resources, and computer applications to monitor case management activities. Prerequisite(s): 450:214 or completion of 450:239. (Variable)

### **450:285. Readings - 1-6 hrs.**

Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **450:289. Graduate Seminar in Social Work - 3 hrs.**

Advanced, in-depth exploration of a topic in social work practice, policy, research, or knowledge. May be repeated once on a different topic. Prerequisite(s): completion of first year of M.S.W. program, or graduation from a Council on Social Work Education accredited undergraduate curriculum. (Variable)

## 48\_ Communication Studies

### **48C (Communications)**

#### **48C:001. Oral Communication - 3 hrs.**

Development of speaking and listening skills by studying the process and theory of communication and by applying communication principles to various speaking situations. (Offered Fall, Spring, and Summer)

#### **48C:002. Introduction to Communication - 1 hr.**

Overview of the communication discipline, career paths, and career preparation. Prerequisite(s): 48C:001. (Offered Fall, Spring, and Summer)

#### **48C:004. Interpersonal Communication - 3 hrs.**

Study of communication in relationships; exploration and experience with concepts and processes involved in one-to-one communication. Prerequisite(s): 48C:001. (Offered Fall, Spring, and Summer)

#### **48C:011. Oral Interpretation: Texts in Performance - 3 hrs.**

Introduction to the performance, analysis, and criticism of literary and aesthetic texts. (Offered Fall and Spring)

#### **48C:015. Interpreters Theatre: Directing and Scripting for Group Performance - 3 hrs.**

Adapting and staging texts for live and electronic group performances. Work in narrative adaptation, montage scripting, and ethnodrama. Prerequisite(s): 48C:011 or 620:031 or equivalent. (Offered Spring)

#### **48C:024. Media Literacy - 3 hrs.**

Development of the ability to critically analyze media messages by examining the techniques, technologies, and institutions that are involved in media production. (Offered Spring)

#### **48C:031. Group Communication - 3 hrs.**

Study of how people use their communication to create and perpetuate effective groups; experiential exploration of the dynamics and processes

involved in group communication including the pitfalls and struggles faced by students when they work in groups. Prerequisite(s): 48C:001. (Offered Fall and Spring)

**48C:071. Public Speaking - 3 hrs.**

Teaches students to prepare, adapt, present, and critique a variety of speeches in a public setting. Prerequisite(s): 48C:001. (Offered Fall and Spring)

**48C:074. Argumentation and Debate - 3 hrs.**

Training in the basics of academic debate and policy analysis. Prerequisite(s): 48C:001. (Offered Fall)

**48C:080. Introduction to Research Methods - 3 hrs.**

Introduction to the process of research and inquiry across the discipline of communication studies. Includes the three units qualitative, quantitative, and rhetorical. Introduction to the normative expectations of the research process. Prerequisite(s): 48C:001. (Offered Fall and Spring)

**48C:091. Applied Forensics - 1 hr.**

Credit for approved participation in competitive speech and debate activities. May be repeated for maximum of 8 hours. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**48C:093. Applied Performance Studies - 1-2 hrs.**

Credit for approved work in Performance Studies (e.g., participation in Interpreters Theatre, performance in community, campus, or festival settings; or related activity). May be repeated for maximum of 8 hours. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**48C:108(g). Performance and Social Change - 3 hrs.**

Study of creation and theory of interactive performances as a method to create dialog and promote civic engagement related to social justice issues. Prerequisite(s): junior standing. (Offered Spring)

**48C:110(g). Cultural Performance - 3 hrs.**

Advanced study of verbal art, texts, and aesthetic traditions in community, cultural, and political contexts. Emphasis on the roles narrative, ritual, and ceremony play in creating and contributing to cultural identity and social advocacy. Prerequisite(s): junior standing. (Offered Fall)

**48C:113(g). Social Protest: Performance and Rhetoric - 3 hrs.**

Study of rhetorical and performance texts in social protest, public awareness, identity formation, and rhetorical movements. Special attention to issues of race, sex and sexuality, age, and/or class. Prerequisite(s): junior standing. (Variable)

**48C:117(g). Interpreters Theatre Production - 1-2 hrs.**

Advanced study and practice in preparing scripts, directing group performance for public presentation, and designing and implementing technical elements of productions. Usually involves directing, scripting, designing, or researching for an Interpreters Theatre production. Prerequisite(s): 48C:015; approved Performance Studies project application; junior standing; consent of instructor. (Offered Fall and Spring)

**48C:119(g). Readings in Performance Studies - 1-3 hrs.**

Extensive individual study of special topics in performance studies theory, history, or research. Prerequisite(s): 48C:011; 48C:108 or 48C:110; junior standing. (Variable)

**48C:120(g). Technology and Human Communication - 3 hrs.**

Investigation of the relationships between technology and communication and their impact on social behavior, thought, and culture. Prerequisite(s): junior standing. (Offered Even Falls)

**48C:121(g). Nonverbal Communication - 3 hrs.**

Study of practices, theories and concepts related to patterns of human expression apart from the spoken or written word. Prerequisite(s): junior standing. (Same as 680:102g) (Offered Fall and Spring)

**48C:122(g). Language and Communication - 3 hrs.**

Language theories and analysis approaches, including sociolinguistics, pragmatics, conversation analysis, discourse analysis, and ethnography of speaking, with applications for interpersonal, organizational, and public contexts. Prerequisite(s): junior standing. (Offered Fall and Spring)

**48C:123(g). Rhetorical Theories - 3 hrs.**

Survey of the development of rhetorical theory from classical times to the present. Exploration of what constitutes communication, what role it plays in social/political/cultural orders, how it differs between groups, and how it affects social change. Emphasis on classical to contemporary rhetorical theory or contemporary rhetorical theory. Prerequisite(s): junior standing. (Offered Spring)

**48C:124(g). Communication Theories - 3 hrs.**

Investigation of theories and concepts used to explain human communication. Prerequisite(s): junior standing. (Offered Fall and Spring)

**48C:126(g). Critical Thinking in Communication - 3 hrs.**

Exploration of practical application of thinking to facilitate and analyze effective communication behaviors. Prerequisite(s): 12 hours in communication; junior standing; consent of instructor. (Variable)

**48C:128. Ethics in Communication - 3 hrs.**

Exploration of ethical dimensions and dilemmas in communication. Prerequisite(s): junior standing. (Same as CAP:128) (Offered Spring)

**48C:131(g). Advanced Group Communication - 3 hrs.**

In-depth study of theories and research in group communications. Prerequisite(s): 48C:001; 48C:031; junior standing. (Offered Spring)

**48C:132. Organizational Communication - 3 hrs.**

Study of communication theories and practices in organizational settings. Organizational communication processes may include leadership decision-making, conflict resolution, and technology. Prerequisite(s): 48C:001. (Offered Fall and Spring)

**48C:134(g). Organizational Cultures and Communication - 3 hrs.**

Study of how cultural ideologies and forms such as symbols, rituals, language, and narratives are created, maintained, and changed in organizations. Emphasis on interpretive and critical theory and research. Prerequisite(s): 150:153 or 48C:132; 48C:080; junior standing. (Offered Fall)

**48C:135(g). Organizational Communication Assessment - 3 hrs.**

Methods used to assess communication behavior and communication effectiveness in organizations. Special attention to communication auditing techniques, and creation of appropriate intervention techniques. Prerequisite(s): 48C:080; 48C:132; junior standing. (Offered Spring)

**48C:136(g). Mediation Theory and Process - 3 hrs.**

Analysis of mediation concepts and processes involving third party intervention in a conflict context. Prerequisite(s): 48C:004; junior standing. (Variable)

**48C:138(g). Health Communication - 3 hrs.**

Theories of communication in health care settings, current issues in health communication, types of applications in interpersonal, organizational, and public communication contexts; literature and performance methods in health education. Prerequisite(s): junior standing. (Offered Odd Springs)

**48C:139. Interviewing - 3 hrs.**

Interviewer and interviewee functions in business and professional settings; excludes journalistic interviews. No credit toward major for 48C:139 if credit in 48C:173. (Variable)

**48C:141(g). Listening - 2 hrs.**

Study of theory and process of listening, methods of improving skills, and career applications. Prerequisite(s): junior standing. (Offered Fall and Spring)

**48C:142(g). Family Communication - 3 hrs.**

Study of communication phenomena in the family setting. Examination of how communication influences the development, maintenance, and enhancement of family relationships. Prerequisite(s): 48C:004; junior standing. (Offered Fall)

**48C:144(g). Advanced Interpersonal Communication - 3 hrs.**

Advanced study of theories and research in interpersonal communication. Prerequisite(s): 48C:004; junior standing. (Offered Fall)

## 48\_ Communication Studies

### **48C:146. Oral History Communication - 3 hrs.**

Methods of researching, interviewing, analyzing, and presenting oral history materials. Applications for communication research and performance, including projects in museums, public relations campaigns, organizational settings, and community media. Prerequisite(s): junior standing. (Offered Even Springs)

### **48C:148(g). Communication and Conflict Management - 3 hrs.**

Exploration of the processes involved in managing conflict in various communication contexts. Prerequisite(s): 48C:004; junior standing. (Offered Spring)

### **48C:151(g). Intercultural Communication - 3 hrs.**

Critical analysis of the multiple ways culture, perception, and communication influence each other. Offers a blend of theory, research, and hands-on application. Prerequisite(s): junior standing. (Offered Spring)

### **48C:153(g). Gender Issues in Communication - 3 hrs.**

Examination of construction and performance of gender identities through verbal and non-verbal communication. Critical analysis of biological, sociological, and patriarchal explanations for presumed gender differences in communication. Prerequisite(s): junior standing. (Offered Fall)

### **48C:155(g). Communication, Community, and Change - 3 hrs.**

Study of communication practices in the construction, enhancement, and maintenance of communities. Theoretical and experiential applications through civic engagement, case study analysis, and applied critique of specific communities. Includes community projects, presentations, or simulations. Prerequisite(s): senior standing; intended to be taken in final semester. (Offered Spring)

### **48C:160(g). Political Communication - 3 hrs.**

Study of the elements of national and/or local political communication, including the rhetoric of political campaigns, and/or the rhetoric of elected officials. Prerequisite(s): junior standing. (Offered Even Falls)

### **48C:166(g). Selected Topics in Communication - 3 hrs.**

Intensive work in specialized communication concepts, processes and approaches. No single emphasis may be repeated although the course may be repeated for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

### **48C:168(g). Message Design and Delivery - 3 hrs.**

Advanced course which teaches students to prepare, adapt, and deliver messages in a variety of public settings. Special attention is paid to integrating presentation technology into the speech communication process. Prerequisite(s): 48C:001; 48C:071; junior standing. (Variable)

### **48C:173. Business and Professional Oral Communication - 3 hrs.**

Exploration of theories and experiences in business and professional dyadic, small group, and public communication situations, with emphasis on developing individual communication skills and professionalism. No credit toward major for 48C:173 if credit in 48C:139. Prerequisite(s): 48C:001. (Offered Fall and Spring)

### **48C:174(g). Controversy: Analyzing Public Argument - 3 hrs.**

Analysis of contemporary public controversy. Emphasis on understanding argumentation theory and applying it to the practice of argumentation in the public sphere. Prerequisite(s): junior standing. (Offered Odd Springs)

### **48C:176(g). Freedom of Speech - 3 hrs.**

Development of laws and social attitudes that have attempted to regulate communication in the United States; relation of free speech to national security, to regulation of the public forum, and to artistic expression; analysis of doctrines and tests used by the Supreme Court in interpreting the limits to free expression. Prerequisite(s): junior standing. (Variable)

### **48C:178. Persuasion - 3 hrs.**

Examination of the dynamics involved in the creation, reception, and exchange of effective persuasive messages, episodes, and campaigns with a

primary focus on social science theory and research regarding processes of human influence. (Variable)

### **48C:179. Cooperative Education - 1-6 hrs.**

(Offered Fall, Spring, and Summer)

### **48C:180(g). Quantitative Research Methods - 3 hrs.**

Examination of principles and procedures of communication research with emphasis on experimental and survey methods and techniques. Students will complete research projects. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **48C:183(g). Qualitative Research Methods - 3 hrs.**

Examination of principles and procedures of communication research with emphasis on interpretive and ethnographic techniques. Students complete research projects. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **48C:187(g). Teaching of Speech - 3 hrs.**

Teaching strategies for grades 5-12; application of educational principles to the communication classroom. Strongly recommended to precede student teaching. Prerequisite(s): 12 hours of 48C course work; 200:017; 200:030; junior standing. (Offered Fall)

### **48C:189(g). Rhetorical Communication Research Methods - 3 hrs.**

Examination of principles and procedures of rhetorical criticism. Students complete research projects. Prerequisite(s): junior standing. (Offered Odd Springs)

### **48C:191. Applied Forensics - 1 hr.**

Credit for approved participation in competitive speech and debate activities. May be repeated for maximum of 8 hours. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **48C:193. Applied Performance Studies - 1-2 hrs.**

Credit for approved work in Performance Studies (e.g., participation in Interpreters Theatre, performance in community, campus, or festival settings; or related activity). May be repeated for maximum of 8 hours.

Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **48C:197(g). Internship in Communication - 1-6 hrs.**

Students complete academic assignments in conjunction with intensive work in a specialized area on-site at an organization. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; internship coordinator approval. See the internship coordinator for additional departmental requirements. (Offered Fall, Spring, and Summer)

### **48C:201. Introduction to Graduate Study and Research - 3 hrs.**

Exploration of communication research methodologies and resources. (Offered Fall)

### **48C:212. Seminar in Performance Studies - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Variable)

### **48C:222. Seminar in Communication - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Variable)

### **48C:224. Communication Theory - 3 hrs.**

In-depth exposure to historical and contemporary scholarship that informs and constitutes theories of communication. Interdisciplinary with focus on social scientific and critical research on human communication, media studies, and rhetorical and performance theories. (Offered Spring)

### **48C:232. Seminar in Organizational Communication - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Offered Fall)

### **48C:236. Communication Research Methodology - 3 hrs.**

Introduction to various research methods used in the study of communication. May be repeated for maximum of 9 hours if different section. Prerequisite(s): graduate standing. (Offered Fall and Spring)

### **48C:236-01 Quantitative Methods.**

Introduction to the quantitative methods employed in the study of com-



munication, including experimental and survey techniques.

**48C:236-02 Qualitative Methods.**

Introduction to the qualitative research methods employed in the study of communication, including interpretive and ethnographic techniques.

**48C:236-03 Critical Methods.**

Introduction to the elements of critical, rhetorical, and performance methods, as well as alternative methods of textual criticism, and analysis and preparation of examples of textual criticism.

**48C:244. Interpersonal Communication - 3 hrs.**

Synthesis of psychological, sociological, philosophical analysis of person-to-person communication. (Variable)

**48C:282. Seminar in Communication Education - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Offered Fall)

**48C:291. Projects in Communication Studies - 1-3 hrs.**

May be repeated for maximum of 3 hours. Consent of departmental committee must be obtained before registration. (Variable)

**48C:292. Graduate Internship - 2-3 hrs.**

Experiential learning appropriate for the student's model program of study in the master of arts in communication curriculum. Prerequisite(s): fully admitted into the graduate program; completion of 12 hours of graduate course work in the department; permission of faculty advisor who will determine any other prerequisite courses. (Offered Fall, Spring, and Summer)

**48C:299. Research.**

(Offered Fall, Spring, and Summer)

## 48E (Electronic Media)

**48E:003. Introduction to Electronic Production - 3 hrs.**

Introduction to audio and video production theories and techniques. Emphasis on gaining an understanding of production terminology, a mastery of basic production techniques, and comprehension of the information these communicate to an audience. (Offered Fall and Spring)

**48E:011. Audio Production: (Topic) - 1-6 hrs.**

Advanced theory and practice of producing audio programming for a variety of areas. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:003; 48E:071. (Offered Fall and Spring)

**48E:013. Video Production: (Topic) - 1-6 hrs.**

Advanced theory and practice of producing video programming for a variety of areas. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:003; 48E:071. (Offered Fall and Spring)

**48E:021. Electronic Media Literacy - 3 hrs.**

Development of ability to read television; a basic knowledge of how and why media images are selected, in order to foster a more dynamic relationship between citizens and media. Prerequisite(s): 48J:002. (Offered Fall and Spring)

**48E:071. Beginning Writing for Electronic Media - 3 hrs.**

Techniques and script styles used in writing copy, continuity, and programs for radio and television. Prerequisite(s): 48J:002. (Offered Fall and Spring)

**48E:073. News Writing for Electronic Media - 3 hrs.**

Principles and practice of writing, editing, and compiling news for electronic media. Prerequisite(s): 48J:007. (Variable)

**48E:091. Applied Electronic Media - 1 hr.**

Credit available for qualified students who work on campus radio station, KGRK, and/or on other authorized radio/TV/film projects. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

**48E:111. Audio Practicum: (Topic) - 1-6 hrs.**

Production of a weekly audio program, with students filling the roles

of all production staff. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:011. (Variable)

**48E:112. Multimedia Production - 3 hrs.**

Examination of principles of design and creation of interactive multimedia applications. Prerequisite(s): 48E:003; junior standing. (Offered Fall and Spring)

**48E:113. Video Practicum: (Topic) - 1-6 hrs.**

Production of weekly television program, with students filling the roles of all production staff. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:013 (Variable)

**48E:115. Advanced Reporting for Electronic Media: (Topic) - 3 hrs.**

Principles and practices of radio or television news gathering and presentation. Writing, field acquisition of information, editing and story construction, performance, and analysis of news process. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:073. (Variable)

**48E:117. Electronic Media Projects - 1-6 hrs.**

Individualized independent production for audio and/or video. Students work under the supervision of faculty on a major project beyond the scope of existing courses. May be repeated for maximum of 6 hours. Prerequisite(s): 48E:011 or 48E:013; junior standing; consent of instructor. (Variable)

**48E:121(g). Electronic Media and Culture - 3 hrs.**

Examination of electronic media and its relationship to culture. Use of a number of approaches to define culture and to analyze media products as cultural forms. Prerequisite(s): 48E:021; junior standing. (Offered Fall)

**48E:123(g). Electronic Media Form, Content, Criticism - 3 hrs.**

Advanced examination of electronic media programming forms and content as an art form and as a vehicle for dissemination of information. Analysis may include historical and/or contemporary examples. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:021; junior standing. (Variable)

**48E:131(g). Electronic Media: Audience Analysis - 3 hrs.**

Examination of characteristics and behaviors of electronic media audiences. Special attention to audience research methodologies and impact of new communication technologies on audience behavior. Prerequisite(s): 48E:021; junior standing. (Offered Fall)

**48E:132(g). Electronic Media: Law and Policy - 3 hrs.**

Examination of electronic media and related policies and procedures in the United States, including areas of broadcast, common carrier, and cable regulations. Prerequisite(s): 48E:021; junior standing. (Offered Spring)

**48E:134(g). Electronic Media Management - 3 hrs.**

Examination of administrative oversight of electronic media business aspects such as production, programming, personnel, sales, and engineering. Prerequisite(s): 48E:021; junior standing. (Offered Fall)

**48E:136. Electronic Media Sales and Promotion - 3 hrs.**

Sales techniques in television and radio; analysis of sales organizations and operations; principles and problems of broadcast promotions; and principles and practices of television and radio development, including promotion and fund raising. Prerequisite(s): 48E:071; junior standing. (Variable)

**48E:138(g). Electronic Media Programming - 3 hrs.**

Informational programming responsibilities for electronic outlets, including development of a philosophy concerning effective programming strategies. Prerequisite(s): 48E:021; junior standing. (Variable)

**48E:139(g). Electronic Media Industries: (Topic) - 3 hrs.**

Focus on operation of various mass media industries as they evolved and function as social, cultural, political, and economic entities. Topics indicated in Schedule of Classes. May be repeated for maximum of 6 hours if different topic. Prerequisite(s): 48E:021; junior standing. (Variable)

## **48E (Electronic Media)/48J (Journalism)/48P (Public Relations)**

### **48E:141(g). Electronic Media: Processes and Effects - 3 hrs.**

Examination of processes, functions, and effects of electronic media. Special attention to impact of electronic media on the nature of political process, violence and aggressive behavior, and individual attitudes and behavior. Prerequisite(s): 48E:021; junior standing. (Offered Spring)

### **48E:161(g). Communication Technologies - 3 hrs.**

Examination of past, current, and emerging communication technologies and how they affect those who use them. Emphasis on the variety of social consequences, intended or not, that can result from use and interaction with communications technologies. Prerequisite(s): 48J:002; junior standing. (Offered Fall and Spring)

### **48E:166(g). Selected Topics in Electronic Media - 3 hrs.**

Extensive work in specialized electronic media concepts, processes and approaches. May be repeated once on a different topic. Prerequisite(s): junior standing. (Variable)

### **48E:191. Applied Electronic Media - 1 hr.**

Credit available for qualified students who work on campus radio station, KGRK, and/or on other authorized radio/TV/film projects. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

### **48E:195. Senior Seminar in Electronic Media - 3 hrs.**

Exploration of decision-making models that can be applied to ethical dilemmas in the electronic media field; and instruction on how to package themselves professionally (cover letter, resume, portfolio). Prerequisite(s): senior standing. (Offered Fall and Spring)

### **48E:197(g). Internship in Electronic Media - 1-6 hrs.**

Students complete academic assignments in conjunction with intensive work in a specialized area on-site at an organization. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; internship coordinator approval. See the internship coordinator for additional departmental requirements. (Offered Fall, Spring, and Summer)

### **48E:201. Introduction to Graduate Study and Research - 3 hrs.**

Exploration of electronic media research methodologies and resources. (Cross listed as 48C:201) (Offered Fall)

### **48E:222. Seminar in Mass Communication - 3 hrs.**

Various topics will be offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Variable)

### **48E:224. Mass Communication Theory - 3 hrs.**

For beginning graduate students to explore mass communication inquiry. Provides working knowledge of some of the major literature on mass communication theory and research. (Offered Fall)

### **48E:291. Projects in Electronic Media - 1-3 hrs.**

(Cross listed as 48C:291) (Variable)

### **48E:292. Graduate Internship - 2-3 hrs.**

(Cross listed as 48C:292) (Offered Fall and Spring)

### **48E:299. Research.**

(Offered Fall, Spring, and Summer)

## **48J (Journalism)**

### **48J:002. Mass Communication and Society - 3 hrs.**

Survey of basic mass communication processes, including history and structure of media and media-related industries and sales, audiences, effects, careers, and future directions. (Offered Fall and Spring)

### **48J:007. Reporting Methodologies and Sources - 3 hrs.**

Emphasis on information gathering techniques for the mass media, including examination of search strategies, sources, and news values. (Offered Fall and Spring)

### **48J:071. News Writing for Print Media - 3 hrs.**

Principles and practice of writing, editing, and compiling news for the print media. Prerequisite(s): 48J:002; 48J:007. (Offered Fall and Spring)

### **48J:121(g). History of Mass Communication - 3 hrs.**

Development of the structure, economics, and content of communication

in the United States; examination of significant persons and events contributing to the technological, economic, and social development of mass media. Equal emphasis on print and electronic media. Prerequisite(s): 48J:002; junior standing. (Offered Spring)

### **48J:124(g). Communication Theories - 3 hrs.**

(Cross listed as 48C:124g) (Offered Fall and Spring)

### **48J:132(g). Mass Communication Law and Ethics - 3 hrs.**

Origins and backgrounds of mass communication law and ethics, including that in journalism and public relations. Contemporary problems and issues in mass communication-related law and ethics. Libel, fair trial, law, and self-regulation in journalism, public relations, and advertising. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **48J:151(g). Global Mass Communication Systems - 3 hrs.**

Media practices and philosophies in the major regions of the world. Government and economic structures of global communications processes and practices. Prerequisite(s): 48J:002; junior standing. (Offered Fall)

### **48J:166. Selected Topics in Mass Communication - 3 hrs.**

Study of current issues in mass communication. Prerequisite(s): 48J:002; junior standing. (Variable)

### **48J:171(g). Advanced Reporting - 3 hrs.**

Gathering information and writing and editing of complex news stories; emphasis on advanced techniques of interviewing, journal research, and personal observation. Prerequisite(s): 48J:071; junior standing. (Offered Fall and Spring)

### **48J:172. Editing and Design - 3 hrs.**

Copyreading, proofreading, writing headlines; studying make-up, typography, and photography. Prerequisite(s): 48J:071 or consent of instructor. (Offered Fall and Spring)

### **48J:176(g). Magazine Article Writing - 3 hrs.**

Writing and marketing different types of articles for various publications. Prerequisite(s): 48J:071 or 620:015 or consent of instructor; junior standing. (Offered Spring)

### **48J:178(g). Specialized Reporting: (Topics) - 3 hrs.**

Prepares students to gather and report news in specialized areas such as business, education, sports, science, health, environmental issues, and international affairs. Two or three topics to be included in each offering of the course; topics indicated in Schedule of Classes. May be repeated more than once on different topic. Prerequisite(s): 48J:171 or consent of instructor; junior standing. (Variable)

### **48J:197. Internship in Journalism - 1-6 hrs.**

Students complete academic assignments in conjunction with intensive work in a specialized area on-site at an organization. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; internship coordinator approval. See the internship coordinator for additional departmental requirements. (Offered Fall, Spring, and Summer)

## **48P (Public Relations)**

### **48P:005. Principles of Public Relations - 3 hrs.**

Introduction to theories, processes, and techniques involved in researching, planning, and implementing programs designed to influence public opinion and human behavior. Prerequisite(s): 48C:001; 620:005. (Offered Fall and Spring)

### **48P:091. Applied Public Relations - 1 hr.**

Credit for approved work in public relations (e.g., problems of campaign on campus or in the community). May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

### **48P:170(g). Global Public Relations - 3 hrs.**

Examination and comparison of cultural and geopolitical distinctions of global public relations practice. Prerequisite(s): junior standing. (Offered Fall)

**48P:173. Public Relations Writing - 3 hrs.**

Conceptualization and multi-media adaptation of copy for public relations campaigns. Prerequisite(s): 48J:007. (Offered Fall and Spring)

**48P:182(g). Public Relations Campaign Methods - 3 hrs.**

Analysis and production of public relations tools; techniques to gain reaction and support from specialized groups. Planning and preparation of public relations communications materials and use of controlled (public) media to reach target audiences. Prerequisite(s): 48P:005; junior standing. (Offered Fall and Spring)

**48P:184(g). Public Relations: Integrated Communications - 3 hrs.**

Study of strategies and practice of skills needed to practice "Integrated Communications"; including use of public relations in the mix of marketing communication function within organizations. Prerequisite(s): junior standing. (Offered Spring)

**48P:188(g). Public Relations: Cases and Studies - 3 hrs.**

Analysis of selected cases and their ethical implications; design and simulation of particular public relations campaigns conducted by students. Prerequisite(s): senior standing or consent of instructor. (Offered Fall and Spring)

**48P:190(g). Public Relations Management - 3 hrs.**

Study and analysis of strategies and processes used in managing firms and internal departments; emphasis on management of on-going relations programs. Prerequisite(s): 48P:182; junior standing. (Offered Spring)

**48P:191. Applied Public Relations - 1 hr.**

Credit for approved work in public relations (e.g., problems of campaign on campus or in the community). May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**48P:197(g). Internship in Public Relations - 1-6 hrs.**

Students complete academic assignments in conjunction with intensive work in a specialized area on-site at an organization. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; internship coordinator approval. See the internship coordinator for additional departmental requirements. (Offered Fall, Spring, and Summer)

**48P:201. Introduction to Graduate Study and Research - 3 hrs.**

(Cross listed as 48C:201) (Offered Fall and Spring)

**48P:222. Seminar in Mass Communication - 3 hrs.**

(Cross listed as 48E:222) (Variable)

**48P:224. Mass Communication Theory - 3 hrs.**

(Cross listed as 48E:224) (Offered Fall)

**48P:282. Seminar in Public Relations - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Variable)

**48P:292. Graduate Internship - 2-3 hrs.**

(Cross listed as 48C:292) (Offered Fall and Spring)

**48P:299. Research.**

(Offered Fall, Spring, and Summer)

**490 Theatre****490:C01. Reading List Comprehensive Exam I. no credit.**

Level One Reading List Comprehensive Exam required to be eligible to declare an Area Emphasis in Theatre major. (Offered Fall and Spring)

**490:C02. Reading List Comprehensive Exam II. no credit.**

Level Two Reading List Comprehensive Exam required by the end of senior year in order to fulfill the requirements of the Area Emphasis. (Offered Fall and Spring)

**490:002. The Theatrical Arts and Society - 3 hrs.**

Audience-oriented introduction to the dramatic arts, including the live theatre, film, and television, and their interrelationships with society. Arranged lab required. (Offered Fall and Spring)

**490:010. Creativity and Performance - 3 hrs.**

A collaborative approach to the exploration and development of the creative impulse, processes and results in the theatre. Team-taught.

Production participation required; lab taken concurrently. Lab fee. Corequisite(s): 490:011. (Offered Fall and Spring)

**490:011. Creativity and Performance Lab - 1 hr.**

Provides running crew assignments for all productions in a given semester. Requires an extensive evening commitment. Corequisite(s): 490:010. (Offered Fall and Spring)

**490:015. Stagecraft: Scenery/Lights - 3 hrs.**

Introduction to scenery and lighting planning, research and construction for theatrical production. Involves work in the Strayer-Wood Theatre Scenery Studio on Theatre UNI mainstage season plays. Discussion, 3 periods; lab, 3 periods. Lab fee. (Offered Fall and Spring)

**490:016. Stagecraft: Costumes - 3 hrs.**

Introduction to costume planning, research and construction for theatrical productions. Involves work in the Strayer-Wood Theatre Costume Studio on Theatre UNI mainstage season plays. Discussion 3 periods, lab 3 periods. Lab fee. (Offered Fall and Spring)

**490:024. Acting - 3 hrs.**

Introduction to the craft of acting beginning with exercises and culminating in applying the experience of those exercises to a scene from a play. Exploration of increasing self-awareness. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): for Theatre majors: 490:010; 490:011 (Offered Fall and Spring)

**490:027. Audition Techniques - 3 hrs.**

Selection, preparation, and performance of appropriate audition materials and development of proper audition behavior for the actor. Exploration of graduate schools and acting as a business. 3 periods. Prerequisite(s): 490:010; 490:011; 490:024 or consent of instructor. (Offered Fall)

**490:034. Playscript Analysis and Interpretation - 3 hrs.**

Readings and analysis of plays (Greek to the present) in preparation for production. Prerequisite(s): 490:010. (Offered Fall and Spring)

**490:040. Design Elements for Theatre - 3 hrs.**

Introduction to the language of design as applied to theatre. Explores studio applications of the elements and principles of design to theatre-specific rendering techniques and design projects. Discussion, 3 hours; lab, 3 hours. Prerequisite(s): for Theatre majors: 490:010; 490:011. Prerequisite(s) for other students: consent of instructor. (Offered Fall)

**490:050. Theatre Practicum - 1 hr.**

Credit for approved work in theatre production (e.g., construction crew, performance, crew head, stage manager). Three required (one may be in performance). Prerequisite(s): 490:010; 490:011. (Offered Fall and Spring)

**490:056. Devised Theatre - 3 hrs.**

Collaboration in the creation and presentation of devised work. Prerequisite(s): 490:010; 490:011; declaration of an area emphasis or consent of the department. (Variable)

**490:060. History of the Theatre I - 3 hrs.**

Examination of plays, production methods, and historical trends in the theatre from its beginnings through 1800. Prerequisite(s): for Theatre majors: 490:010. Prerequisite(s) for other students: consent of instructor. (Offered Fall)

**490:061. History of the Theatre II - 3 hrs.**

Examination of plays, production methods, and historical trends in the theatre from 1800 through the present. Prerequisite(s): for Theatre majors: 490:010. Prerequisite(s) for other students: consent of instructor. (Offered Spring)

**490:066. Theatre and Its Literature I - 1 hr.**

Selected readings in theatre literature. (Offered Fall; section 2 for juniors and seniors offered Spring)

**490:101. Creative Drama - 3 hrs.**

Prepares students to guide children and young adults in creative drama. Study of the art of spontaneous drama as it relates to education and development of young people cognitively and creatively. Lab fee. (Offered Fall and Spring)

## 490 Theatre

### **490:104(g). Theatre for Youth - 3 hrs.**

Specific problems of producing theatre for children, including readings in children's literature, child psychology, and plays. Practical experience in improvised and scripted performances. Prerequisite(s): junior standing. (Offered Spring)

### **490:106. Theatre in Education - 3 hrs.**

Application of theatre performance and improvisation techniques to the teaching of a specific curricular topic intended for young audiences. Prerequisite(s): junior standing. (*Same as CAP:106*) (Variable)

### **490:109. Methods of Teaching Drama and Theatre - 3 hrs.**

Introduction, exploration, and application of various methods for teaching and assessing drama and theatre practices and learning in K-12 venues. Prerequisite(s): 490:010; 490:011 or 490:024 or 490:101. (Offered Fall and Spring)

### **490:121. Movement for the Actor - 3 hrs.**

Designed to encourage relaxation, limberness, and strength. Exploration of ways in which movement and sensory work can trigger and influence character work and emotional connection. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 490:010. (Offered Fall)

### **490:122. Vocal Production for the Actor - 3 hrs.**

Using relaxation and breathing techniques developed by voice practitioners, students will release tension and identify vocal habits which impede the acting process. Includes vocal precision and power, IPA and anatomy. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 490:010; 490:011; 490:121; declaration of area emphasis. (Offered Spring)

### **490:124(g). Acting III - 3 hrs.**

Focus on individual instrumental problems while reinforcing craft skills on more challenging texts. May be repeated for credit only with consent of instructor. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 490:010; 490:024; 490:122; or consent of instructor; junior standing. (Offered Spring)

### **490:126(g). Acting Styles - 3 hrs.**

Application of techniques learned in 490:024, including theoretical studies of various styles of acting as well as extensive scene work. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 490:010; 490:024; 490:060; 490:061; 490:122; or consent of instructor; junior standing. (Offered Fall)

### **490:127(g). Acting Studio - 3 hrs.**

Reinforces craft skills and focuses on individual problems through prescriptive scene work and exercises. Performance area emphasis students must take this course twice. May be repeated up to three times for credit. Discussion, 3 periods; lab 3 periods. Prerequisite(s): 490:010; 490:011; 490:024; junior standing; consent of instructor. (Variable)

### **490:128. Advanced Voice and Movement - 3 hrs.**

Continuation of voice and movement pedagogy to facilitate character development. Other topics include IPA, dialects, period style work, research. Prerequisite(s): 490:121; 490:122; declaration of area emphasis. (Variable)

### **490:129(g). Stage Combat - 2 hrs.**

Basic skills of modern and historic styles of fencing, swordplay, and other modes of fighting, and application of these skills to the planning and safe execution of an effective and artistic stage fight. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): junior standing. (Offered Spring)

### **490:140. Production Techniques Studio: Drafting, Pattern Development, Scene Painting, or Make-up - 1 hr.**

Intensive study and project work in the following advanced skill areas: Drafting for the Theatre, Pattern Development for Theatre Costumes, Scene Painting, and Make-up. Discussion, 1 period; lab, 1 period. Lab fee. Prerequisite(s): for Theatre majors: 490:040. Prerequisite for other students: consent of instructor. (Offered - Drafting offered Fall; Pattern offered Fall; Painting offered even Springs; Make-up offered odd Springs)

### **490:141(g). Design: Sets - 3 hrs.**

Discussion and project work in the development of scenery for the per-

forming arts. Prerequisite(s): 490:010; 490:140 (Drafting); sophomore standing. (Variable)

### **490:142(g). Design: Lights - 3 hrs.**

Discussion and project work in the development and presentation of lighting for the performing arts. Prerequisite(s): 490:010; 490:140 (Drafting); sophomore standing. (Variable)

### **490:143(g). Design: Costumes - 3 hrs.**

Discussion and project work in the development of costumes for the performing arts. Prerequisite(s): 490:010; 490:015 or 490:140 (Patterning); sophomore standing. (Variable)

### **490:144(g). Topics in Theatre Design and Production - 3 hrs.**

Advanced topics in Design and Production involving research and experiential investigation of production techniques. Rotating topics will include: Period Styles for Theatre, Advanced Problems in Theatre: Make-up Production, Costume Production, Scenery Production, Lighting Production, and Sound Production. May be repeated for maximum of 6 hours. Prerequisite(s): for Theatre majors: 490:040; one Production Techniques Studio (490:140); junior standing. Prerequisites for other students: junior standing; consent of instructor. (Variable)

### **490:151(g). Theatre Production - 1-4 hrs.**

Assumption of a major production responsibility under supervision of faculty. Lab, 2 hrs. May be repeated in various production areas for a maximum of 8 hours. Prerequisite(s): junior standing; consent of supervising instructor. (Offered Fall and Spring)

### **490:153. Synthesis of the Theatre Experience - 1 hr.**

Through experiences with contemporary theatre artists and educators, students engage in guided research to facilitate their transition to post-graduate training and work experiences. Prerequisite(s): 490:010; 490:056; senior standing; or consent of instructor. (Offered Fall)

### **490:155(g). Theatre Management - 3 hrs.**

Intensive study of business practices in the academic, community, and commercial theatre. Field trips and guest lectures. Prerequisite(s): junior standing. (Variable)

### **490:156(g). Plays in Production - 3 hrs.**

Examination of plays as they have been interpreted through theatrical production. Emphasis on plays of a particular playwright, particular era, specific genre, or that reflect a particular production style. May be repeated for maximum of 6 hours. Prerequisite(s): for Theatre majors: 490:060; 490:061; junior standing. Prerequisites for other students: junior standing; consent of instructor. (Offered Fall)

### **490:157(g). Stage Management - 3 hrs.**

Introduction to techniques, procedures, and forms used in stage managing theatre and allied performing arts. Prerequisite(s): 490:010; sophomore standing or consent of instructor. (Offered Spring)

### **490:158(g). Internship - 1-8 hrs.**

Intensive work in specialized area at off-campus theatre facility. For advanced students in theatre. May be repeated for maximum of 8 hours. Prerequisite(s): junior standing; consent of advisor and department head. (Variable)

### **490:160(g). History of the Theatre III - 3 hrs.**

Examination of plays, production methods, and historical trends in the theatre. Sections may examine African American Theatre History, American Theatre History, Modern European Theatre History (1900-present), Feminist Theatre, and Period Styles in Theatre Design. May be repeated for maximum of 9 hours. Prerequisite(s): 490:010; 490:060; 490:061; or consent of instructor; junior standing. (Variable)

### **490:161. Directing I - 3 hrs.**

Analysis of plays and fundamentals of directing. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): for Theatre majors: 490:010; 490:024; 490:034; junior standing. For Communication-Theatre Majors-Teaching: 490:015; 490:024; 490:034; junior standing. (Offered Fall and Spring)

**490:164(g). Advanced Directing and Design - 3 hrs.**

Collaborative approach in the advanced analysis of selected scripts and the creation of unified production concepts. Directors will continue work begun in 490:161. Designers will continue work in design theory and techniques, and develop designs in more than one area for portfolio presentation. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 490:010; 490:056; 490:161; junior standing. (Variable)

**490:166(g). Readings in Theatre - 3 hrs.**

Intensive investigation of a theatre style, form, period, or concept. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; consent of instructor. (Variable)

**490:168(g). Playwriting - 3 hrs.**

Prerequisite(s): for Theatre majors: 490:010 or consent of instructor; junior standing. Prerequisites for other students: consent of instructor; junior standing. (Offered Spring)

**490:170. Senior Project - 3 hrs.**

Departmentally approved culminating capstone experience in theatre that provides students with opportunity to devise, implement and critique a major project of their own design in the areas of performance, design and production, youth theatre/theatre education, history, directing and/or criticism, on campus or off. Prerequisite(s): declared area emphasis; 2.50 cumulative GPA; project approval by department. (Offered Fall and Spring)

**490:199. Study Tour - 1-6 hrs.**

Theatre study abroad in established programs. (Variable)

**490:280. Introduction to Graduate Studies in Theatre - 3 hrs.**

(Offered Fall)

**490:284. Dramatic Theory - 3 hrs.**

Review and examination of major theories of drama and performance from an historical or thematic base. May be repeated for credit. Prerequisite(s): graduate standing or consent of instructor. (Offered Spring)

**490:285. Readings in Theatre - 3 hrs.**

(Variable)

**490:289. Seminar in Theatre - 3 hrs.**

Various topics offered with specific title indicated in Schedule of Classes. May be repeated more than once on different topic. (Offered Fall)

**490:299. Research.**

(Variable)

## **51\_ Communication Sciences and Disorders**

### **51C (Communicative Disorders)**

**51C:006. Understanding Communication Disorders - 3 hrs.**

Provides a general understanding of normal and disordered speech, language, and hearing in adults and children. Covers normal development of communication behavior, the nature of communication disorders, and how speech-language pathology and audiology interact with allied fields (e.g., education, medicine, psychology, and special education). (Offered Fall)

**51C:106. Language Acquisition in Children: Birth to 5 Years - 3 hrs.**

Study of the acquisition of phonological, semantic, syntactic, and pragmatic systems as these interface with brain maturation and motor, cognitive, and social development. Biological and social/interactional factors examined from variety of perspectives, stressing "applied" orientation. Corequisite(s): 51C:107. (Offered Spring)

**51C:107. Language Analysis Lab - 1 hr.**

Experience in applications of language sample analysis procedures for children at different levels of development. Corequisite(s): 51C:106. (Offered Spring)

**51C:111. Phonetics in Communicative Disorders - 3 hrs.**

Proficiency in use of International Phonetic Alphabet with emphasis on physiological and linguistic aspects of speech sound production. (Offered Spring)

**51C:114. Anatomy and Physiology of Speaking Mechanism - 3 hrs.**

Introduction to functional anatomy and physiology in the speech mechanism. (Offered Spring)

**51C:125. Disorders of Speech Sounds - 3 hrs.**

Study of disordered phonological/articulatory systems; exploration of assessment and intervention principles and practices. Prerequisite(s): 51C:111 or consent of instructor. (Offered Fall)

**51C:127(g). Language of School-aged Children - 3 hrs.**

Language development of older children. Assessment and intervention principles and techniques for children of school age with language disorders. Includes issues in cultural and linguistic diversity, literacy and collaboration with classroom teachers. Prerequisite(s): 51C:106; junior standing. (Offered Fall)

**51C:129. Clinical Examination - 2 hrs.**

Theoretical and practical aspects of the evaluation process. Prerequisite(s): 51C:111; Communicative Disorders majors only; junior standing. (Offered Spring)

**51C:151. Clinical Processes I, Analysis and Observation - 1 hr.**

Introduction to role of speech-language pathologists and audiologists as clinicians; emphasis on analysis and observation of remediation. Prerequisite(s): Communicative Disorders majors only; minimum 3.00 GPA; junior standing or consent of instructor. (Offered Fall)

**51C:152. Clinical Processes II, Participation - 1 hr.**

Introduction to role of speech-language pathologists and audiologists as clinicians; emphasis on participation as an assistant in the UNI Roy Eblen Speech and Hearing Clinic. Prerequisite(s): Communicative Disorders majors only; minimum 3.00 GPA; junior standing or consent of instructor. (Offered Spring)

**51C:155. Clinical Practice - 1 hr.**

Clinical experience evaluation and remediation of language and articulation disorders as well as experience in testing of hearing. Must be repeated for total of 2 hours for students planning to major in Speech-Language Pathology at the graduate level. Prerequisite(s): minimum 3.00 GPA; senior standing or consent of instructor. (Offered Fall, Spring, and Summer)

**51C:160(g). Augmentative Communication - 2 hrs.**

Study of theoretical and practical aspects of planning augmentative communication for the severely communicatively disabled. Prerequisite(s): junior standing. (Offered Fall)

**51C:162(g). Speech Science - 3 hrs.**

Study of sound analysis techniques used in the diagnosis of and research into disorders of communication. Includes laboratory experience. Prerequisite(s): 51C:175; junior standing. (Offered Spring)

**51C:164(g). Neuroscience and the Study of Communicative Disorders - 3 hrs.**

Study of neuroanatomical and neurophysiological bases of speech production. Prerequisite(s): 51C:114; junior standing. (Offered Fall)

**51C:166(g). Introduction to Fluency - 3 hrs.**

Study of etiology, diagnosis, and management of fluency disorders. Prerequisite(s): 51C:106; junior standing. (Offered Spring)

**51C:168(g). Communication Problems of Special Populations - 2 hrs.**

Study of communication patterns, assessment accommodations, and intervention practices for selected low-incidence preschool and school-age clinical categories. Prerequisite(s): junior standing. (Offered Spring)

**51C:170. Introduction to American Sign Language (ASL) - 3 hrs.**

Introduction to principles and use of American Sign Language. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

## 51C Communicative Disorders/51S (Speech-Language Pathology)/520 Music/530 Music, Organizations and Ensembles

### **51C:173. Advanced American Sign Language (ASL) - 3 hrs.**

Designed for students with basic communication skills in American Sign Language. Emphasis on advanced practice of American Sign Language and study of the deaf culture. Prerequisite(s): 51C:170 (grade of C or better); junior standing. (Variable)

### **51C:175(g). Hearing Science - 3 hrs.**

Physical concepts and acoustics relating to propagation and measurement of sound. Anatomy and physiology of the ear including neurophysiology of the peripheral and central auditory system, and psychoacoustics. Prerequisite(s): junior standing. (Offered Fall)

### **51C:177(g). Introduction to Audiology - 3 hrs.**

Basic hearing science, types of hearing loss, and audiometric measurement. Prerequisite(s): 51C:175; junior standing. (Offered Spring)

### **51C:180(g). Aural Rehabilitation - 3 hrs.**

Principles and procedures for assessment and rehabilitation of communication deficits of hearing-impaired persons-emphasizing amplification systems, auditory training, speech-reading, and total communication for the hard-of-hearing and deaf. Prerequisite(s): 51C:175; 51C:177; junior standing. (Offered Fall)

### **51C:190(g). Current Problems in Speech-Language Pathology and Audiology - 1-2 hrs.**

Major issues confronting clinicians, researchers, and the profession. Topics to be determined by instructors. May be repeated as section topics change. Prerequisite(s): senior or graduate standing or consent of instructor. (Variable)

### **51C:197(g). Honors in Communicative Disorders - 2-3 hrs.**

Development and implementation of an approved research project in an area of communicative disorders. Prerequisite(s): junior standing; consent of instructor. (Variable)

### **51C:200. Research Methods in Speech-Language Pathology and Audiology - 2 hrs.**

Introduction to methodology, various designs, and report preparation for research. Prerequisite(s): approved statistics course. (Offered Fall and Spring)

### **51C:257. Internship in Clinical Settings - 4-16 hrs.**

Advanced clinical experience in settings such as hospitals, rehabilitation centers, schools. Minimum 8-week, full-time internship when taken in addition to 280:250; minimum 16-week, full-time without 280:250. Prerequisite(s): consent of instructor. (Offered Fall, Spring, and Summer)

### **51C:282. Professional Issues - 1 hr.**

Study of current professional issues in speech-language pathology. Prerequisite(s): graduate major in speech-language pathology. (Offered Spring)

### **51C:285. Individual Readings - 1-2 hrs.**

Project must be approved before beginning of semester in which work is to be done. May be repeated. Prerequisite(s): consent of instructor. (Variable)

### **51C:299. Research - 1-6 hrs.**

Prerequisite(s): consent of instructor and department head. (Variable)

## **51S (Speech-Language Pathology)**

### **51S:220. Cleft Palate - 2 hrs.**

Etiology, nature, habilitation, and associated problems resulting from facial clefts and other structural facial deviations. Evaluative and therapeutic principles and practices. Includes laboratory. Prerequisite(s): 51C:125 or consent of instructor. (Variable)

### **51S:222. Language Training Strategies - 3 hrs.**

Review of current literature materials for language-disordered children. Requires active participation for demonstrations and presentations of articles and materials. Prerequisite(s): 51C:106; 51C:127; or consent of instructor. (Offered Fall)

### **51S:226. Disorders of Voice - 3 hrs.**

In-depth study of the etiology, diagnosis, and management of voice disorders. Prerequisite(s): 51C:114; 51C:164; or consent of instructor. (Offered Fall)

### **51S:228. Aphasia and Related Disorders - 3 hrs.**

Diagnosis and remediation of aphasia in adults. Prerequisite(s): 51C:164 or consent of instructor. (Offered Spring)

### **51S:229. Dysphagia - 2 hrs.**

Diagnosis and remediation of dysphagia in children and adults. Prerequisite(s): 51C:164. (Offered Spring)

### **51S:230. Motor Speech Disorders - 2 hrs.**

Neurophysiological bases, differential diagnosis, and clinical management of motor speech disorders in children and adults. Prerequisite(s): 51C:127 or consent of instructor. (Offered Fall)

### **51S:232. Clinical Phonology - 2 hrs.**

Review of current literature on phonological disorders. Includes issues and procedures in the assessment and management of such disorders. Prerequisite(s): 51C:125 or consent of instructor. (Offered Spring)

### **51S:250. Clinical Assessment - 1 hr.**

Process of assessing individuals with communicative disorders, including strategies for interviewing and examining clients; preparation of clinical reports; clinical routine and practical application. Must be repeated for total of 3 hours for students planning to major in Speech-Language Pathology at the graduate level. Corequisite(s): 51S:255 or consent of instructor. (Offered Fall and Spring)

### **51S:255. Advanced Clinical Practice - 1-4 hrs.**

Clinical experience in diagnosis and remediation of speech, language, and/or hearing problems at an advanced level of preparation and responsibility. Must be taken for minimum of four academic terms in the graduate program. Prerequisite(s): 51C:155 or consent of instructor; individuals must be accepted graduate students in the Speech-Language Pathology major. (Offered Fall, Spring, and Summer)

### **51S:289. Seminar in Speech-Language Pathology - 2 hrs.**

Seminars in special topics to be announced in the Schedule of Classes. No limit on number of times repeated as long as topic is different. Prerequisite(s): consent of advisor. (Offered Fall, Spring, and Summer)

## **520 Music**

### **520:020. Our Musical Heritage - 3 hrs.**

Exploration of music within the context of evolving Western culture. Music fundamentals and vocabulary. Repertories from the medieval world through the post-Romantic era. (Offered Fall and Spring)

### **520:030. Music of Our Time - 3 hrs.**

Major trends in traditional and experimental art music, American popular music (from ragtime to rock), ca. 1900 to the present. (Offered Fall and Spring)

### **520:102(g). Music in Childhood Education - 2 hrs.**

Methods and principles of music in the elementary classroom. Rudiments, aural training, selection, and study of materials for listening, rhythmic activities, and singing. No credit for music major or minor. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **520:299. Research.**

(Variable)

## **530 Music, Organizations and Ensembles**

**Organization and Ensemble Credit:** 1 semester hour of credit may be earned by a student who completes a semester in an approved ensemble. Ensembles may be repeated for credit. Maximum of 2 credits for organization and ensemble participation may be earned in any one semester. For students who have been awarded two or three music scholarships or are majoring in more than one instrument/voice, a maximum of 3 credits for organization and ensemble participation may be earned in any

one semester (with approval from the Director of the School of Music). Maximum of 2 credits in Jazz Band I or Chamber Singers may be counted by music majors toward departmental ensemble requirement (or electives for B.A. students). All music ensembles are open to any university student by audition.

Ensemble numbers are assigned as follows, based on the student's classification:

**530:010. Chorus.**

(Concert Chorale, Chamber Singers, UNI Singers, Varsity Men's Glee Club, Women's Chorus, Chamber Choir) (Offered Fall and Spring)

**530:012. Ensemble.**

(Chamber Wind Ensemble, Flute Choir, West African Drum Ensemble, Chamber Woodwind Ensemble, Percussion Ensemble, Tuba-Euphonium Ensemble, Horn Choir, Trombone Ensemble, etc.) (Variable)

**530:015. Band.**

Concert Band (Offered Fall); Symphonic Band (Offered Spring); Basketball Pep Band (Offered Spring); Wind Symphony (Offered Fall and Spring)

**530:016. Jazz Band.**

(Offered Fall and Spring)

**530:017. Orchestra.**

(Offered Fall and Spring)

**530:018. Marching Band.**

(Offered Fall)

**530:019. Opera Performance Ensemble.**

(Offered Fall and Spring)

**530:110(g). Chorus.**

(Concert Chorale, UNI Singers, Varsity Men's Glee Club, Women's Chorus, Chamber Choir) Prerequisite(s): junior standing. (Offered Fall and Spring)

**530:112(g). Ensemble.**

(Chamber Wind Ensemble, Flute Choir, West African Drum Ensemble, Chamber Woodwind Ensemble, Percussion Ensemble, Tuba-Euphonium Ensemble, Horn Choir, Trombone Ensemble, etc.) Prerequisite(s): junior standing. (Offered Fall and Spring)

**530:115(g). Band.**

Concert Band (Offered Fall); Symphonic Band (Offered Spring); Basketball Pep Band (Offered Spring); Wind Symphony (Offered Fall and Spring) Prerequisite(s): junior standing.

**530:116(g). Jazz Band.**

Prerequisite(s): junior standing. (Offered Fall and Spring)

**530:117(g). Orchestra.**

Prerequisite(s): junior standing. (Offered Fall and Spring)

**530:118(g). Marching Band.**

Prerequisite(s): junior standing. (Offered Fall)

**530:119(g). Opera Performance Ensemble - 1 hr.**

Vocal performance ensemble specializing in opera literature. Prerequisite(s): junior standing; consent of instructor. (Offered Fall and Spring)

## 540 Music, Applied

**Note:** Before registration in Applied Music can be accomplished, the student must: 1) successfully complete an audition in the performance area (for composition students, a portfolio of original compositions must be submitted and accepted in lieu of an audition on an instrument or voice), and 2) meet the proficiency standards of the division.

All undergraduate music majors must be enrolled in applied music continuously from the first semester of residence until satisfactory completion of the Senior Recital. It is expected the Senior Recital will be given in the eighth semester of study (seventh semester for students in the Music Education program). Credit hours for Applied Music study are classified as follows:

Performance - 3 credit hours

Composition - 2 or 3 credit hours

B.A. and Music Education - 2 credit hours

Secondary - 1 credit hour

Non-Music Major - 1-2 credit hours

One hour (60 minutes) of individual instruction per week in the principal performing area (or a comparable equivalent arrangement of individual and/or small group instruction) is required for music majors. Practice and performance demands for *Performance* and *Composition* majors are generally more rigorous than those for the *Music Education* and B.A. majors. *Secondary Instrument* students will receive one half hour (30 minutes) of Applied Music instruction each week. *Non-Music* majors will receive either one hour or 30 minutes of instruction depending on the number of credit hours elected. Each student's credit hour load for Applied Music will be determined in consultation with a School of Music advisor in advance of registration. All students in the freshman music core will enroll for 2 semester hours of credit each semester. Students approved for the Performance major under the Bachelor of Music degree will register for 3 semester hours in Applied Music beginning in the *sophomore* year, and Composition majors will register for 3 semester hours in Applied Music beginning in the *junior* year.

Graduate students approved for the Performance, Piano Performance and Pedagogy, Composition, or Conducting majors under the Master of Music degree will register for 2, 3, or 4 (2-4) semester hours of credit in Applied Music during the fall or spring semesters in residence. Number of hours will be determined by the applied instructor and Associate Director.

The appropriate applied faculty will determine the level of the student's qualifications (540:Nxx, 540:0xx, 540:1xx, or 540:2xx) by audition and/or previous work on an instrument or in voice. A 200 number can be assigned only to graduate students in Performance, Piano Performance and Pedagogy, Composition, and Conducting programs who have satisfactorily completed an audition and are preparing for a graduate major in voice, conducting, instrumental performance, or composition. All other graduate applied students shall be assessed and assigned by the applied teacher to either 540:1xxg or 540:0xx.

**540:Nxx. Applied Music for the Non-Music Major.**

Private applied music instruction for students not pursuing a degree program in music. Emphasis on basic skills oriented toward immediate performance needs. Credit normally will not be applied toward music major or minor requirements. (Offered Fall and Spring)

**540:029. Bassoon.**

(Formerly 540:033) (Offered Fall and Spring)

**540:030. Flute.**

(Offered Fall and Spring)

**540:031. Oboe.**

(Offered Fall and Spring)

**540:032. Clarinet.**

(Offered Fall and Spring)

**540:034. Saxophone.**

(Offered Fall and Spring)

**540:035. French Horn.**

(Offered Fall and Spring)

**540:036. Cornet-Trumpet.**

(Offered Fall and Spring)

**540:037. Trombone.**

(Offered Fall and Spring)

**540:038. Euphonium.**

(Offered Fall and Spring)

**540:039. Tuba.**

(Offered Fall and Spring)

**540:040. Percussion.**

(Offered Fall and Spring)

## 540 Music, Applied

### **540:041. Violin.**

(Offered Fall and Spring)

### **540:042. Viola.**

(Offered Fall and Spring)

### **540:043. Cello.**

(Offered Fall and Spring)

### **540:044. String Bass.**

(Offered Fall and Spring)

### **540:045. Harp.**

(Offered Fall and Spring)

### **540:046. Piano.**

(Offered Fall and Spring)

### **540:047. Group Piano.**

(Offered Fall and Spring)

### **540:048. Organ.**

(Offered Fall and Spring)

### **540:049. Voice.**

(Offered Fall and Spring)

### **540:050. Harpsichord.**

(Offered Fall and Spring)

### **540:051. Group Voice.**

(Offered Fall and Spring)

### **540:052. Guitar.**

(Offered Fall and Spring)

### **540:053. Jazz Guitar.**

(Offered Fall and Spring)

### **540:054. Composition.**

(Offered Fall and Spring)

### **540:055. Jazz Improvisation.**

(Offered Fall and Spring)

### **540:056. Jazz Bass.**

(Offered Fall and Spring)

### **540:057. Jazz Piano.**

(Offered Fall and Spring)

### **540:058. Jazz Saxophone.**

(Offered Fall and Spring)

### **540:060. Applied Piano Beyond Proficiency - 1 hr.**

Piano instruction for students in music education and composition/theory programs who need lessons beyond Group Piano Level III. Prerequisite(s): Group Piano, Level III 540:047:09 or 10. (Offered Fall and Spring)

### **540:P46. Piano Proficiency. no credit.**

Required of all undergraduate majors. (Offered Fall and Spring)

### **540:129(g). Bassoon.**

(Formerly 540:133g) (Offered Fall and Spring)

### **540:130(g). Flute.**

(Offered Fall and Spring)

### **540:131(g). Oboe.**

(Offered Fall and Spring)

### **540:132(g). Clarinet.**

(Offered Fall and Spring)

### **540:134(g). Saxophone.**

(Offered Fall and Spring)

### **540:135(g). French Horn.**

(Offered Fall and Spring)

### **540:136(g). Cornet-Trumpet.**

(Offered Fall and Spring)

### **540:137(g). Trombone.**

(Offered Fall and Spring)

### **540:138(g). Euphonium.**

(Offered Fall and Spring)

### **540:139(g). Tuba.**

(Offered Fall and Spring)

### **540:140(g). Percussion.**

(Offered Fall and Spring)

### **540:141(g). Violin.**

(Offered Fall and Spring)

### **540:142(g). Viola.**

(Offered Fall and Spring)

### **540:143(g). Cello.**

(Offered Fall and Spring)

### **540:144(g). String Bass.**

(Offered Fall and Spring)

### **540:145(g). Harp.**

(Offered Fall and Spring)

### **540:146(g). Piano.**

(Offered Fall and Spring)

### **540:147(g). Group Piano.**

(Offered Fall and Spring)

### **540:148(g). Organ.**

(Offered Fall and Spring)

### **540:149(g). Voice.**

(Offered Fall and Spring)

### **540:150(g). Harpsichord.**

(Offered Fall and Spring)

### **540:151(g). Group Voice.**

(Offered Fall and Spring)

### **540:152(g). Guitar.**

(Offered Fall and Spring)

### **540:153(g). Jazz Guitar.**

(Offered Fall and Spring)

### **540:154(g). Composition.**

(Offered Fall and Spring)

### **540:155(g). Jazz Improvisation.**

(Offered Fall and Spring)

### **540:156(g). Jazz Bass.**

(Offered Fall and Spring)

### **540:157(g). Jazz Piano.**

(Offered Fall and Spring)

### **540:158(g). Jazz Saxophone.**

(Offered Fall and Spring)

### **540:178. Junior Recital. no credit.**

Required of all juniors in the Performance major. (Offered Fall and Spring)

### **540:189. Senior Recital. no credit.**

Required of all seniors. Prerequisite: 3 hours at 100-level in major applied area. (Offered Fall and Spring)

### **540:221. Instrumental Conducting - 2-4 hrs.**

Prerequisite(s): admission to Master of Music in Conducting. (Variable)

### **540:222. Choral Conducting - 2-4 hrs.**

Prerequisite(s): admission to Master of Music in Conducting. (Variable)

### **540:223. Group Vocal Practicum - 1 hr.**

Concentrates on advanced performance problems, including diction, interpretation, and presentation, in a master class style setting. Required each semester in residence. One credit hour per semester, for a total of four hours. Prerequisite(s): admission to Master of Music in Vocal Performance degree or consent of applied instructor. (Offered Fall and Spring)

### **540:229. Bassoon.**

(Formerly 540:233) (Offered Fall and Spring)

### **540:230. Flute.**

(Offered Fall and Spring)



**540:231. Oboe.**

(Offered Fall and Spring)

**540:232. Clarinet.**

(Offered Fall and Spring)

**540:234. Saxophone.**

(Offered Fall and Spring)

**540:235. French Horn.**

(Offered Fall and Spring)

**540:236. Cornet-Trumpet.**

(Offered Fall and Spring)

**540:237. Trombone.**

(Offered Fall and Spring)

**540:238. Euphonium.**

(Offered Fall and Spring)

**540:239. Tuba.**

(Offered Fall and Spring)

**540:240. Percussion.**

(Offered Fall and Spring)

**540:241. Violin.**

(Offered Fall and Spring)

**540:242. Viola.**

(Offered Fall and Spring)

**540:243. Cello.**

(Offered Fall and Spring)

**540:244. String Bass.**

(Offered Fall and Spring)

**540:245. Harp.**

(Offered Fall and Spring)

**540:246. Piano.**

(Offered Fall and Spring)

**540:247. Group Piano.**

(Offered Fall and Spring)

**540:248. Organ.**

(Offered Fall and Spring)

**540:249. Voice.**

(Offered Fall and Spring)

**540:250. Harpsichord.**

(Offered Fall and Spring)

**540:251. Group Voice.**

(Offered Fall and Spring)

**540:252. Guitar.**

(Offered Fall and Spring)

**540:253. Jazz Guitar.**

(Offered Fall and Spring)

**540:254. Composition.**

(Offered Fall and Spring)

**540:255. Jazz Improvisation.**

(Offered Fall and Spring)

**540:256. Jazz Bass.**

(Offered Fall and Spring)

**540:257. Jazz Piano.**

(Offered Fall and Spring)

**540:258. Jazz Saxophone.**

(Offered Fall and Spring)

**540:288. Graduate Recital. no credit.**

Study of literature programmed for required graduate recitals. Required for students enrolled in Master of Music - Major in Performance, Conducting, Composition, or Jazz Pedagogy during the semester in which required recital occurs. Prerequisite(s): graduate standing; departmental approval or consent of applied instructor. (Offered Fall and Spring)

**560 Music Techniques****560:010. Double Reed Making Techniques - 1 hr.**

Instruction in the techniques of making and adjusting bassoon, oboe, and English horn reeds. Section 01 for bassoon player; Section 02 for oboe/English horn players. May be repeated for credit. (Offered Fall and Spring)

**560:017. Conducting I-Instrumental - 2 hrs.**

Prerequisite(s): 580:014; 580:018; 580:028. (Offered Fall)

**560:018. Conducting I-Choral - 2 hrs.**

Prerequisite(s): 580:014; 580:018; 580:028. (Offered Fall)

**560:021. Conducting II-Instrumental - 3 hrs.**

Advanced training in instrumental conducting with emphasis on orchestral and band scores and literature for small and large ensembles. Required of all instrumental music majors on teaching program. Prerequisite(s): 560:017 (minimum grade of C). (Offered Spring)

**560:022. Conducting II-Choral - 3 hrs.**

Training in choral conducting, rehearsal techniques, performance practices, and choral materials. Required on the teaching degree for voice majors and those keyboard majors who do not take 560:021. Prerequisite(s): 560:018 (minimum grade of C). (Offered Spring)

**560:030. Diction for Singers I - 1 hr.**

Study and application of Italian and English speech sounds for use by singers, coach-accompanists, and teachers of choral music. (Variable)

**560:031. Diction for Singers II - 1 hr.**

Study and application of German and French speech sounds for use by singers, coach-accompanists, and teachers of choral music. Prerequisite(s): 560:030. (Variable)

**560:045. Vocal Coaching - 1 hr.**

May be repeated for credit. Prerequisite(s): sophomore standing. (Offered Fall and Spring)

**560:052. Instrumental Jazz Improvisation - 1 hr.**

Elements of improvisation intended as an aid to the experienced instrumentalist and as a tool for the potential instructor. Areas available: Basic, Intermediate, and Advanced. Each area may be taken once for credit. (For freshmen/sophomores.) Prerequisite(s): consent of instructor. (Variable)

**560:060. Opera Performance I - 2 hrs.**

Lab course exploring movement, imagination, and the relationship between words and music. A wide variety of acting exercises (improvisation, movement work, etc.) are used to deepen the understanding of and proficiency in performing art songs, arias, and music theatre numbers. Prerequisite(s): ability to read and process music. (Variable)

**560:121(g). Conducting III-Instrumental - 2 hrs.**

Techniques of conducting band and orchestral works; score study and analysis of major works representing all style periods. Class work includes conducting major works in rehearsal. May be repeated for credit. Prerequisite(s): 560:021; junior standing. (Variable)

**560:122(g). Conducting III-Choral - 2 hrs.**

Art and techniques of conducting choral and choral-orchestral literature as related to score study of major works from all major style periods. Rehearsal experience includes conducting major works, conducting and coaching of recitatives, score reading, problems of baton clarity, and rehearsal pacing. May be repeated for credit. Prerequisite(s): 560:022; junior standing. (Variable)

**560:135(g). Accompanying - 1 hr.**

The art of accompanying, both vocal and instrumental literature. Practical experience as accompanist for student soloists in public performance. May be taken twice for credit. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 540:146 or consent of instructor. (Offered Fall and Spring)

**560:145(g). Vocal Coaching - 1 hr.**

May be repeated for credit. Prerequisite(s): junior standing; consent of instructor. (Offered Fall and Spring)

## 560 Music Techniques/570 Music Education and Methods

### **560:152(g). Instrumental Jazz Improvisation - 1 hr.**

Elements of improvisation intended as an aid to the experienced instrumentalist and as a tool for the potential instructor. Areas available: Basic, Intermediate, and Advanced. Each area may be taken once for credit. (For juniors/seniors/graduates.) Prerequisite(s): consent of instructor. (Variable)

### **560:154(g). Singing in Italian - 1 hr.**

Performance class provides studying and applying advanced techniques in diction and style through critiqued performances of Italian repertoire for the solo voice. Prerequisite(s): 560:030 or consent of instructor; junior standing. (Variable)

### **560:161(g). Opera Performance II - 2 hrs.**

Advanced study of operatic material exploring emotional and psychological construction of a character and developing performing skills to create and sustain a role. Audition required. May be repeated for credit. Prerequisite(s): 560:060 or consent of instructor; junior standing. (Variable)

### **560:250. Projects in Music Techniques - 1-3 hrs.**

(Variable)

### **560:252. Advanced Instrumental Jazz Improvisation - 2 hrs.**

Advanced concepts of jazz improvisation, including the study of contemporary jazz compositions, complex harmony, chromatic linear resources, and intervallic techniques. Prerequisite(s): 560:152; graduate standing or consent of instructor. (Variable)

## **570 Music Education and Methods**

### **570:010. Instrumental Techniques - 1 hr.**

Areas: flute, clarinet and saxophone, double reeds, high brass, low brass, high strings, low strings, percussion, and harp. Emphasis on pedagogy relevant to the elementary or beginning student musician. One hour credit for each area. Areas may not be repeated for additional credit. (Variable)

### **570:050. Introduction to Music Education - 2 hrs.**

Overview of music education methodologies, philosophies, and techniques, including computer-based music instruction (CBMI). Techniques for audio and video recording of music ensembles. Prerequisite(s): accepted into Bachelor of Music-Music Education degree program or consent of instructor. (Offered Fall and Spring)

### **570:075. Guitar in the Classroom - 1 hr.**

Emphasizes accompanimental skills, fingerstyle and pickstyle, and scale/chord foundations in the keys most used for guitar; basic classical guitar technique is used in reading standard notation within the first four frets (first position). Learned repertoire includes traditional roots music (folk and blues) as well as popular styles. (Variable)

### **570:130(g). Vocal Pedagogy - 2 hrs.**

Techniques of diagnosing and discussing vocal problems as related to the singing voice, and a survey of pedagogic materials. Actual teaching experience under supervision. Prerequisite(s): music major; junior standing. (Offered Spring)

### **570:138(g). Instrumental Pedagogy - 2 hrs.**

Topics vary depending upon instrument and instructor. Advanced techniques of solving physiological and psychological problems of performance. May be repeated with advisor approval. Prerequisite(s): 570:010 or teaching experience; junior standing. (Variable)

### **570:141. Elementary/General Music Methods - 3 hrs.**

Objectives and materials for and methods of teaching general music in public schools. Emphasis on contemporary approaches: Orff, Kodaly, Dalcroze, Integrated Arts, and other methodologies. Prerequisite(s): 570:050; junior standing or consent of instructor. (Variable)

### **570:145(g). Developments and Trends in Music Education - 3 hrs.**

Evolving issues important to music educators. May be repeated for credit. Prerequisite(s): 570:050; junior standing or consent of instructor. (Variable)

### **570:148(g). Piano Pedagogy: Elementary - 2 hrs.**

Methods and materials related to the teaching of the elementary piano student, including psychological and technical development. Addresses business aspects. Observations of teaching required. Prerequisite(s): junior standing. (Variable)

### **570:149(g). Piano Pedagogy: Current Technological Trends - 1 hr.**

Exploration of current trends in technology related to the field of piano and keyboard instruction for children and adults. Exploration of topics appropriate for the independent piano studio. Prerequisite(s): junior standing. (Variable)

### **570:153(g). Curriculum Development in Music Education - 1 hr.**

Development of choral and general music teaching strategies and curriculum for the K-8 general music class. Prerequisite(s) or corequisite(s): 570:141 or consent of instructor; junior standing. (Variable)

### **570:161. Instrumental Methods I: Strings - 1 hr.**

String methods and pedagogy for lessons and ensembles in a K-12 setting. Prerequisite(s): 560:017; 570:010:06 or 07; 570:050; junior standing. (Offered Fall)

### **570:162. Instrumental Methods II: Marching Band - 1 hr.**

Fundamentals training, music selection and arranging, administrative approaches, and drill charting for school marching bands. Prerequisite(s): 560:017; 570:050; junior standing. (Offered Fall)

### **570:163. Instrumental Methods III: School Administration - 1 hr.**

Provides students with the necessary information to help them work successfully with administrators, other teachers, community members, parents, and students in the K-12 school setting. Prerequisite(s): 560:017; 570:050; junior standing. (Offered Spring)

### **570:164. Instrumental Methods IV: Jazz Band - 1 hr.**

Jazz band methods and pedagogy for lessons and ensembles in the K-12 setting. Emphasis on rehearsal techniques and materials. Prerequisite(s): 560:017; 570:050; junior standing. (Offered Spring)

### **570:165. Choral Methods and Materials - 3 hrs.**

Organization and development of public school choral organizations. Emphasis on rehearsal techniques, vocal production and blend, and materials suitable for choral ensembles. Evaluation techniques appropriate to school music setting. Prerequisite(s): 560:018; 570:141; or consent of instructor. (Offered Spring)

### **570:175(g). Pedagogical Approaches to Music Education - 3 hrs.**

Introduction to the approach, techniques, methods, and philosophy of Orff, Kodaly, and Dalcroze teaching pedagogies. Prerequisite(s): 570:141 or graduate status. (Variable)

### **570:197(g). Instrumental Upkeep and Repair - 2 hrs.**

Areas: woodwinds, strings, brass, and percussion. Laboratory course with practical projects undertaken. Offered for instrumental majors. Prerequisite(s): junior standing. (Variable)

### **570:221. Research Methodology in Music Education - 3 hrs.**

Introduction to various research methodologies used in music education. Required of graduate Music Education majors. (Variable)

### **570:230. Foundations of Music Education - 3 hrs.**

Examination of the foundations and underlying principles of music education. (Variable)

### **570:250. Projects in Music Education - 1-3 hrs.**

Students electing the non-thesis option will enroll in this course upon completion of course work. Course content consists of writing a final research paper. Students must enroll in this course continuously until the final research project has been completed. (Variable)

### **570:252. Jazz Pedagogy - 2 hrs.**

Methods and materials related to teaching of jazz, including jazz ensemble rehearsal techniques, improvisation, jazz theory, and listening techniques. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**570:255. School Music Administration and Classroom Management - 3 hrs.**

Philosophy, management, and public relations techniques and procedures associated with administration of elementary and secondary music programs. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**570:257. Piano Pedagogy: Intermediate - 2 hrs.**

Methods and materials related to teaching of the intermediate piano student including psychological development, repertory, technique, the transfer student, and use of technology. Specific techniques related to teaching concept of artistry addressed. Observation of teaching required. (Variable)

**570:258. Piano Pedagogy: Group and Adult - 2 hrs.**

Materials and instructional techniques related to use of electronic piano lab, teaching of groups/class piano, and teaching adults. Exploration of curriculum planning and the benefits of group instruction in independent studio, public school, and university. (Variable)

**570:260. Piano Pedagogy: Internship - 1 hr.**

Piano teaching assignments, determined in consultation with supervisor. All students required to intern one semester with the group piano program where they observe and teach segments of the class. Other possible internships include college secondary applied piano and demonstration laboratory. Teaching assignments include conferences with the supervisor. Evaluation through video tape, self-assignment and supervisor's critique. Students in M.M. Piano Performance and Pedagogy program must enroll for a total of three separate 1-hour internships. Corequisite(s): 570:148, 570:149, 570:257, or 570:258. (Variable)

**570:282. Seminar: Music Learning and Behavior - 3 hrs.**

Exploration of behavioral, cognitive, and developmental theories affecting music teaching and learning. Required of graduate Music Education majors. (Variable)

**570:285. Readings - 1-3 hrs.****Readings in Piano Pedagogy - 1-2 hrs.**

Independent readings from a selected list as approved by piano pedagogy instructor and department head. (Variable)

**Readings in Music Education - 1-3 hrs.**

Readings in music education not normally covered in other courses. May be repeated for maximum of 3 hours. Prerequisite: consent of instructor. (Variable)

**570:287. Measurement and Evaluation in Music - 3 hrs.**

Study of the measurement and evaluation techniques for music aptitude and achievement. Emphasis on developing teacher-made tests and available standardized music tests. (Variable)

**580 Music Theory****580:010. Introduction to Music Theory - 2 hrs.**

Basic skills and vocabulary. For non-music majors with limited background in music fundamentals or as preparation for music major theory courses. Emphasis on notation, key/time signatures, rhythm, and aural training. (Variable)

**580:011. Theory I - 2 hrs.**

Fundamentals of basic musicianship; scales, intervals, and chord forms; and analysis and writing involving diatonic harmony. Creative use of materials. Corequisite(s): 580:015; 580:025. (Offered Fall)

**580:012. Theory II - 2 hrs.**

Continuation of 580:011. Prerequisite(s): 580:011 with grade of C or higher, or placement by exam. Corequisite(s): 580:016; 580:026. (Offered Spring)

**580:013. Theory III - 2 hrs.**

Materials of musicianship; emphasis on the so-called period of "common practice." Prerequisite(s): 580:012 with grade of C or higher, or placement

by exam. Corequisite(s): 580:017; 580:027. (Offered Fall)

**580:014. Theory IV - 2 hrs.**

Continuation of 580:013 with emphasis on Late Romantic and Contemporary eras. Prerequisite(s): 580:013 with grade of C or higher, or placement by exam. Corequisite(s): 580:018; 580:028. (Offered Spring)

**580:015. Aural Training I - 1 hr.**

Corequisite(s): 580:011; 580:025. (Offered Fall)

**580:016. Aural Training II - 1 hr.**

Prerequisite(s): 580:015 with grade of C or higher, or placement by exam. Corequisite(s): 580:012; 580:026. (Offered Spring)

**580:017. Aural Training III - 1 hr.**

Prerequisite(s): 580:016 with grade of C or higher, or placement by exam. Corequisite(s): 580:013; 580:027. (Offered Fall)

**580:018. Aural Training IV - 1 hr.**

Prerequisite(s): 580:017 with grade of C or higher, or placement by exam. Corequisite(s): 580:014; 580:028. (Offered Spring)

**580:025. Sight-Singing I - 1 hr.**

Corequisite(s): 580:011; 580:015. (Offered Fall)

**580:026. Sight-Singing II - 1 hr.**

Prerequisite(s): 580:025 with grade of C or higher, or placement by exam. Corequisite(s): 580:012; 580:016. (Offered Spring)

**580:027. Sight-Singing III - 1 hr.**

Prerequisite(s): 580:026 with grade of C or higher, or placement by exam. Corequisite(s): 580:013; 580:017. (Offered Fall)

**580:028. Sight-Singing IV - 1 hr.**

Prerequisite(s): 580:027 with grade of C or higher, or placement by exam. Corequisite(s): 580:014; 580:018. (Offered Spring)

**580:030. Composition Class - 2 hrs.**

Acquaints students with the rudiments of compositional techniques. Designed for both major and non-major compositional study. Required of all beginning Composition-Theory majors. (Variable)

**580:110. Analysis of Music - 2 hrs.**

Study of forms and procedures prevalent in the works of major composers from 16th century to present. Prerequisite(s): 580:013. (Variable)

**580:122. Music and Technology - 2 hrs.**

Overview of current applications in the music industry. Prerequisite(s): 580:012; 580:016; 580:026 with a grade of C or higher; or consent of instructor. (Variable)

**580:125(g). Counterpoint Survey - 3 hrs.**

A survey of polyphonic practice, including species counterpoint as well as 16th to 20th century approaches. Prerequisite(s): 580:013; junior standing. (Variable)

**580:126(g). Orchestration - 3 hrs.**

Transcribing or composing for orchestra, band, smaller instrumental ensembles, voice with orchestra, voice with band, chorus with band, or orchestra for various levels. Prerequisite(s): 580:013; junior standing. (Variable)

**580:127(g). Jazz Arranging I - 2 hrs.**

Basic skills for jazz composer/arranger, including instrument ranges, transposition, chord terminology, voicing and doubling principles, harmonization, chord substitution, form, and score organization. Emphasis on writing for jazz combo instrumentation up to five horns. Prerequisite(s): 580:012; junior standing. (Offered Fall)

**580:128(g). Jazz Arranging II - 2 hrs.**

Continuation of 580:127. Emphasis on writing for full big band, including augmented instrumentation, contrapuntal and formal problems, score study, and analysis. Prerequisite(s): 580:127; junior standing. (Offered Even Springs)

**580:132(g). Jazz Composition Class - 1 hr.**

The composition of jazz improvisation vehicles in lead sheet form. Includes attention to various compositional devices and the analysis of selected jazz compositions. Prerequisite(s): 560:152; 580:014; junior standing. (Variable)

**580:180(g). Theory Survey for Graduates - 2 hrs.**

Review of theoretical principles and methods of analysis. Required of all graduate students who do not demonstrate adequate proficiency as a result of the Graduate Theory Diagnostic Examination. Does not count toward minimum degree requirements. Prerequisite(s): junior standing. (Variable)

**580:210. Analytical Techniques I - 3 hrs.**

Investigation of music from chant through 18th century. Examination of major composers and their works in historical context, emphasizing development of Western tradition. Prerequisite(s): 580:180 or passing score on Graduate Theory Diagnostic Examination. Student must have completed or currently be enrolled in 590:221. (Offered Odd Springs)

**580:211. Analytical Techniques II - 3 hrs.**

Continuation of 580:210. Investigation of music written from 1800 to present day. Examination of major composers and their works in historical context, emphasizing development of Western tradition. Prerequisite(s): 580:180 or passing score on Graduate Theory Diagnostic Examination. Student must have completed or currently be enrolled in 590:221. (Offered Even Springs)

**580:250. Projects in Music Theory - 1-3 hrs.**

(Variable)

## **590 Music History and Musicology**

**590:005. Introduction to Music Studies - 2 hrs.**

Exploration of basic music concepts and repertoires. Music listening techniques. (Offered Fall and Spring)

**590:010. History of Music I - 3 hrs.**

Survey of musical trends from all eras. Early Christian era through Bach (1750). Prerequisite(s): 590:005. (Offered Fall and Spring)

**590:011. History of Music II - 3 hrs.**

Continuation of 590:010. Classical period to present. Prerequisite(s): 590:005. (Offered Fall and Spring)

**590:110(g). Music History-Middle Ages and Renaissance - 3 hrs.**

Prerequisite(s): 590:010; 590:011; junior standing. (Variable)

**590:111(g). Music History-Baroque - 3 hrs.**

Prerequisite(s): 590:010; 590:011; junior standing. (Variable)

**590:112(g). Music History-Classical - 3 hrs.**

Prerequisite(s): 590:010; 590:011; junior standing. (Variable)

**590:114(g). Music History-Romantic - 3 hrs.**

Prerequisite(s): 590:010; 590:011; junior standing. (Variable)

**590:115(g). Music History-20th Century - 3 hrs.**

Prerequisite(s): 590:010; 590:011; junior standing. (Variable)

**590:151(g). Music of World Cultures - 3 hrs.**

Study of non-Western music: Africa, Islam, India, Indo-China, Indonesia, China, and Japan, and role of music in these cultures. Prerequisite(s): junior standing. (Variable)

**590:160(g). Jazz History and Styles - 3 hrs.**

Evolution of jazz styles and their relationship to social, economic, and political moods of the period; in-depth and detailed study of history and development of jazz in America. Prerequisite(s): junior standing. (Offered Even Falls)

**590:180(g). Music History Survey for Graduates - 1-2 hrs.**

Review of various style periods, media, and forms in music history of our culture. Required of all graduate students who do not demonstrate adequate proficiency as a result of the Graduate Music History Diagnostic Examination. May be repeated for credit. Does not count toward minimum degree requirements. Prerequisite(s): junior standing. (Variable)

**590:221. Music Research and Bibliography - 2 hrs.**

Acquaints student with source materials in music and in locating thesis topic. Should be taken during first semester in residence by all graduate music students. (Offered Fall)

**590:250. Projects in Music History and Literature - 1-3 hrs.**

(Variable)

**590:285. Readings in Music History - 1-3 hrs.**

Prerequisite(s): consent of Graduate Coordinator in Music. (Variable)

**590:289. Seminar in Music History - 3 hrs.**

Musicological research into the various areas of music. (Variable)

## **595 Performance Literature and Repertory**

**595:120(g). Performance Literature \_\_\_\_\_ - 2 hrs.**

Study of performance literature available for specific instrument or voice. Combination ensemble-literature course for the performer. Prerequisite: junior standing.

**595:120(g)-01. Woodwinds.** (Offered odd Springs)

**595:120(g)-02. Brass.** (Variable)

**595:120(g)-03. Piano I.** (Offered odd Falls)

**595:120(g)-04. Piano II.** (Offered even Springs)

**595:120(g)-05. Organ.** (Variable)

**595:120(g)-06. Strings.** (Variable)

**595:120(g)-07. Percussion.** (Variable)

**595:120(g)-08. Voice I, Survey of Song Literature.**

Survey of vocal literature, historical background, and style: 17th century through 20th century. Prerequisite: junior standing. (Offered Fall)

**595:120(g)-09. Voice II, Art Song: German Language.**

Study of vocal literature, historical background, style, and interpretation: chief composers of the German Lied, ca. 1750 (C.P.E. Bach) through 20th century. Non-performance. Prerequisite: junior standing. (Variable)

**595:120(g)-10. Voice III, Art Song: English and French Language.**

Study of vocal literature (repertoire) from English and French-speaking countries with regard to historical background, style, and interpretation. Prerequisite: junior standing. (Variable)

**595:120(g)-12. Voice IV, Opera Literature.**

Familiarizes the student with a general survey of operatic literature as well as the stylistic differences among the respective composers. Prerequisites: junior standing. (Variable)

**595:130(g). History of Opera Literature - 3 hrs.**

Development of opera from its inception (ca. 1600) to present. Prerequisite(s): junior standing. (Variable)

**595:131(g). History and Literature of Large Choral Forms - 3 hrs.**

Development of large choral forms from the Renaissance to present. Emphasis on the Mass, cantata, oratorio, passion, anthem, and contemporary uses of the chorus. Prerequisite(s): junior standing. Undergraduates must have completed or be enrolled in 580:110. (Variable)

**595:140(g). History and Literature of the Orchestra - 3 hrs.**

Orchestral literature from mid-18th century to present. Emphasis on structure of the symphony as a form and growth of the orchestra as an ensemble. Prerequisite(s): junior standing. Undergraduates must have completed or currently be enrolled in 580:110. (Variable)

**595:142(g). History and Literature of the Wind Band - 3 hrs.**

Growth and development of wind music from Gabrieli to present. Prerequisite(s): junior standing. Undergraduates must have completed or be enrolled in 580:110. (Variable)

## **600 Art**

**600:002. Visual Inventions - 3 hrs.**

Studio course: experiences in critical responses to the visual arts through active involvement with various creative processes and media; relationship of the visual arts to other fields of human endeavor. (Variable)

**600:004. Visual Perceptions - 3 hrs.**

Lecture course: experiences in critical responses to the visual arts through analyses of artworks and artistic processes; relationship of the visual arts to other fields of human endeavor. (Offered Fall and Spring)

**600:018. Drawing I - 3 hrs.**

Emphasis on growth in perception of visual form. Range of materials and subject matter. (Offered Fall and Spring)

**600:019. Drawing II - 3 hrs.**

Continuation of 600:018 with greater emphasis upon self-direction. Prerequisite(s): 600:018. (Offered Fall and Spring)

**600:025. Graphic Design I - 3 hrs.**

Introduction to graphic design concepts and methods. Basics of typography letter forms, layout, and print production. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:026. Two-Dimensional Concepts - 3 hrs.**

Beginning experiences in conceiving and making in two dimensions; emphasis on interaction between work and idea, skills in art making, and common vocabulary of art. (Offered Fall and Spring)

**600:027. Three-Dimensional Concepts - 3 hrs.**

Beginning experiences in conceiving and making in three dimensions; emphasis on interaction between work and idea, skills in art making, and common vocabulary of art. (Offered Fall and Spring)

**600:032. Creative Photography I - 3 hrs.**

Introduction to use of photography as a means of creative expression. Basic camera operations, black and white processing and printing, and presentation methods. Assignments directed toward understanding photographic method and content. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:033. Printmaking I: Etching - 3 hrs.**

Beginning experiences in fine art printmaking, concentrating on intaglio techniques. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Variable)

**600:034. Printmaking I: Screenprint - 3 hrs.**

Introduction to screenprinting processes. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Variable)

**600:035. Printmaking I: Relief Processes - 3 hrs.**

Beginning experiences in fine art printmaking, concentrating on relief processes including woodcut. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Variable)

**600:036. Printmaking I: Lithography - 3 hrs.**

Introduction to fine art printmaking, concentrating on lithographic processes and applications. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Variable)

**600:037. Sculpture I - 3 hrs.**

Introduction to essential methods and materials of sculpture, including modeling, carving, casting, and metal and wood fabrication techniques. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:040. Survey of Art History I - 3 hrs.**

Introduction to history of art; Ancient through Medieval. (Offered Fall and Spring)

**600:041. Survey of Art History II - 3 hrs.**

Introduction to history of art; Renaissance through Modern. (Offered Fall and Spring)

**600:050. Ceramics I - 3 hrs.**

Introduction to basic techniques for forming and finishing ceramic objects. Development of handbuilding and wheelthrowing skills contributing to creative exploration. Assignments directed toward understanding both functional and sculptural aesthetic concerns. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:060. Performance Art I - 3 hrs.**

Emphasis on action over object production; exploration of interdisciplinary art making in real space and time as means of creative expression; examination of various approaches to performance including Dada, Fluxus,

Japanese Butoh, and Conceptualism. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:074. Jewelry/Metals I - 3 hrs.**

Introduction to basic metalsmithing techniques for fabricating jewelry and objects from non-ferrous metals. Emphasis on design process and idea development. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:080. Painting I - 3 hrs.**

Experience in various painting media. Prerequisite(s): Art majors/minors must complete the Foundations Program. (Offered Fall and Spring)

**600:090. Art and the Child - 3 hrs.**

Primarily for elementary education student with little or no experience or knowledge of art. Study of psychological and artistic development of elementary school student with emphasis on creativity within elementary school and art curriculum. (Offered Fall and Spring)

**600:091. Elementary Art Education I - 2 hrs.**

Philosophy and methods of art education in grades PK-8 with emphasis on creating multicultural curriculum. Exploration of ways in which children learn and develop in the visual arts. Requires field experience. Prerequisite(s): Foundations Program. Corequisite(s): Level I in the Professional Education Requirements, or consent of instructor. (Offered Fall and Spring)

**600:092. Elementary Art Education II - 3 hrs.**

Emphasis on application of theory to practice in elementary art curriculum. Function of interdisciplinary approach, critical analysis, and multicultural scope in teaching practice. Increased concentration on children's aesthetic development as revealed in field experience. Introduction to use of computer as teaching resource. Prerequisite(s): 600:091. (Offered Fall and Spring)

**600:111. Life Drawing - 3 hrs.**

Drawing from model using variety of media. May be repeated for credit. Prerequisite(s): 600:019. (Variable)

**600:118. Drawing III - 3 hrs.**

Prerequisite(s): 600:019 or 600:111. (Offered Fall and Spring)

**600:119. Secondary Art Education I - 3 hrs.**

Content, methods, scope, and sequence of instruction for teaching art in grades 5-12. Relating educational theory and strategies to visual art experiences. Exploration of ways to integrate studio art with art history, art criticism, aesthetics, and multiculturalism. Requires field experience. Prerequisite(s): 600:091; 600:092. Corequisite(s): Level II of Professional Education Requirements, or consent of instructor. (Offered Fall and Spring)

**600:121. Secondary Art Education II - 2 hrs.**

Continuation of 600:119 with emphasis on the development of a teaching philosophy and methods of assessment. Preparation of a teaching portfolio and development of teaching unit. Requires field experience. Prerequisite(s): 600:119. (Offered Fall and Spring)

**600:124. Jewelry/Metals II - 3 hrs.**

Forming techniques with emphasis on exploration of the elastic properties of metal. History and issues of contemporary jewelry and metalsmithing investigated through class discussion and assignments to advance the development of individual ideas and directions. Prerequisite(s): 600:074. (Offered Fall and Spring)

**600:125. Graphic Design II - 3 hrs.**

Exploration of approaches to illustration and integration of type and graphic images; class problems and design projects for university and community. Prerequisite(s): 600:025. (Offered Fall and Spring)

**600:126. Graphic Design III - 3 hrs.**

Advanced problems in graphic design. Design systems, corporate identity packaging, and signage. Prerequisite(s): 600:125. (Offered Fall and Spring)

## 600 Art

### **600:127. Publication Design - 3 hrs.**

Lecture-studio course on layout and typography of various types of publications; content research and analysis, display, text type and illustration trends, design formats, and specialized publications and audiences. Prerequisite(s): 600:125. (Offered Fall)

### **600:128. Graphic Design-Illustration - 3 hrs.**

Basic media, techniques, paper selection, and tools for execution of solutions ranging from black and white line to full-color, continuous tone in 2-D and 3-D form. Consideration of specialized commercial illustration problems imposed by mechanical production requirements. Historical overview of styles. Prerequisite(s): 600:125. (Variable)

### **600:129. Typography - 3 hrs.**

Exploration of development of typography as an art form; study of historical development, anatomy of type, and compositional considerations in typography selections. Emphasis on aesthetic use as a design element. Prerequisite(s): 600:125. (Offered Spring)

### **600:130. Creative Photography II - 3 hrs.**

Continuation of 600:032 with emphasis on development of individual's ideas and directions; introduction to view camera, studio lighting, computer-generated imagery, and presentation and exhibition techniques. Prerequisite(s): 600:032 or equivalent. (Offered Fall and Spring)

### **600:131. Creative Photography III - 3 hrs.**

Extension of photography as creative image-making; in-depth look at processes, criticism, and student's own ideas and directions in photography. Prerequisite(s): 600:130. (Offered Fall and Spring)

### **600:132. Color Photography - 3 hrs.**

Introduction to working with color photographic materials and processes including color negative films (Process C-41), transparency films (Process E-6), and negative printing papers. Prerequisite(s): 600:130. (Variable)

### **600:134. Printmaking II - 3 hrs.**

Intermediate work in fine art printmaking. Etching, screen printing, relief processes, lithography, and related processes. In-depth exploration of student-selected processes. Prerequisite(s): any two of the following: 600:033, 600:034, 600:035, or 600:036. (Offered Fall and Spring)

### **600:136. Printmaking II: Photo and Computer Processes - 3 hrs.**

Experimentation with use of photo techniques and computer technology in various processes of printmaking. No photo experience necessary. Prerequisite(s): any two of the following: 600:033, 600:034, 600:035, or 600:036. (Variable)

### **600:137. Sculpture II - 3 hrs.**

Exploration of contemporary issues in sculpture through materials and processes selected by the individual. Emphasis on understanding interrelationships between specific concepts, forms, and materials. Prerequisite(s): 600:037. (Offered Fall and Spring)

### **600:138. Research Methods and Writing in Art History - 2 hrs.**

Introduction to research methods and writing in art history. Cannot be used to satisfy art history requirements in the studio or art education emphases. Prerequisite(s): completion of Foundations Program. (Variable)

### **600:139(g). Ancient Near Eastern Art - 3 hrs.**

Examination of various developments in the Ancient Near East (e.g., Mesopotamia, Anatolia, and the Levant, from formative periods to first millennium, primarily through art and architecture). Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:140(g). Ancient Egyptian Art - 3 hrs.**

Examination of Egyptian culture from early phases of Pre-Dynastic to first millennium, primarily through art and architecture. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:141(g). Art History - 3 hrs.**

Prerequisite(s) for non-art majors and minors: junior standing.

Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:141(g)-01 Medieval Art.**

Examination of various developments in Europe and Western Asia from Late Roman through Gothic, primarily through art and architecture.

### **600:141(g)-02 Northern Renaissance Art.**

Examination of Northern European art from the 14th-16th centuries.

### **600:141(g)-04 Japanese Art.**

Examination of art and culture of Japan from Neolithic through Tokugawa periods.

### **600:141(g)-05 Ancient Greek Art.**

Examination of various developments in the Greek world from Bronze Age through Hellenistic Period, primarily through art and architecture.

### **600:141(g)-06 Ancient Roman Art.**

Examination of various developments in the Roman world, from Etruscan through Roman Imperial, primarily through art and architecture.

### **600:141(g)-07 Chinese Art.**

Examination of art and culture of China from Neolithic Period through Qing Dynasty.

### **600:142(g). Italian Renaissance Art - 3 hrs.**

History of 14th, 15th, and 16th century Italian art. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:144(g). Baroque and Rococo - 3 hrs.**

History of Baroque and Rococo art in 17th and 18th century Europe. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:146(g). 19th Century European Art - 3 hrs.**

Napoleonic art to Art Nouveau. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:147(g). Asian Art - 3 hrs.**

Introduction to the arts of India, Southeast Asia, China, and Japan. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:151(g). Early 20th Century Art - 3 hrs.**

Art from 1900 to mid-20th century. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:152(g). Late 20th Century Art - 3 hrs.**

Art since mid-20th century. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:153(g). History of Photography - 3 hrs.**

Survey of history and evolution of photography since its invention in 1839 to present day. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:154(g). History of Design - 3 hrs.**

Overview of European and American design since 1850. Primary emphasis on graphic design, with secondary focus on architectural and industrial design. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

### **600:155(g). Myth and Narrative in Art - 3 hrs.**

Investigates depictions/translations of myth and narrative in art from ancient to modern times, exploring such concepts as time, story, episode, storyteller, viewer, and metaphor. Prerequisite(s): for non-art majors and minors: junior standing. Prerequisite(s) for Art majors and minors: 600:040; 600:041; junior standing. (Variable)

**600:161. Ceramics II - 3 hrs.**

Continuation of 600:050 with further development of student's understanding of firing techniques and formulation of clay and glazes. Prerequisite(s): 600:050. (Offered Fall and Spring)

**600:162. Painting II - 3 hrs.**

Continuation of 600:080 with greater emphasis upon self-direction. Prerequisite(s): 600:080. (Offered Fall and Spring)

**600:163(g). Performance Art II - 3 hrs.**

Exploration of action-based artmaking with emphasis placed on site specific and durational works. Discussion of relationships between artist and audience, as well as the introduction of basic digital video editing. Prerequisite(s): 600:060; junior standing. (Offered Fall and Spring)

**600:170. Jewelry/Metals III - 3 hrs.**

Study of advanced metalsmithing techniques for the creation of jewelry, functional objects, and small sculpture. Emphasis on critical awareness of contemporary issues in metalsmithing, especially as relate to interests and direction of the individual. Prerequisite(s): 600:124. (Offered Fall and Spring)

**600:171(g). Ceramic Raw Materials and Glaze Calculations - 3 hrs.**

In-depth understanding of origins and use of ceramic materials in making art. Development of clay bodies and formulation of glazes. Discussion of health and safety concerns when using ceramic materials in studio or classroom. Prerequisite(s): 600:161; junior standing. (Variable)

**600:172. Ceramics III - 3 hrs.**

Focused exploration of lowfire, mid-temperature, and highfire ceramics techniques. Emphasis on development of individual's ideas and direction, and relating personal aesthetic concerns to historical and contemporary work. Prerequisite(s): 600:161. (Offered Fall and Spring)

**600:173(g). Performance Art III - 3 hrs.**

Focused exploration of action-based art with greater emphasis on self-direction. Directed study of contemporary time-based artwork. Strategies of live art documentation and development of a performance portfolio. Prerequisite(s): 600:163; junior standing. (Offered Fall and Spring)

**600:174. Printmaking III - 3 hrs.**

Advanced work in printmaking. Etching, screen printing, relief processes, lithography, and related processes. In-depth exploration of student-selected processes. Emphasis on the development of individual interest and direction. Prerequisite(s): 600:134 or 600:136. (Offered Fall and Spring)

**600:175. Undergraduate Studio - 1-6 hrs.**

Advanced study in studio area: Ceramics, Drawing, Graphic Design, Jewelry/Metals, Painting, Performance Art, Photography, Printmaking, or Sculpture. Credit to be determined by instructor at registration. May be repeated for credit. Prerequisite(s): 9 hours in chosen area; consent of instructor. (Offered Fall and Spring)

**600:177. Sculpture III - 3 hrs.**

Focused exploration of concepts and media which reflect interests of student. Emphasis on developing a personal aesthetic and conceptual and critical base for continued work. Prerequisite(s): 600:137. (Offered Fall and Spring)

**600:180. Painting III - 3 hrs.**

Prerequisite(s): 600:162. (Offered Fall and Spring)

**600:189. B.F.A. Exhibition. No credit.**

(Offered Fall and Spring)

**600:191. Art History Seminar - 3 hrs.**

Focused investigation on topic or topics related to a specific area or time covered in general art history courses. Prerequisite(s): For non-art major: junior standing; completion of 100-level courses in area of study pertinent/related to seminar; consent of instructor. Prerequisite(s) for Art majors and minors: completed Foundations Program; minimum of three 100-level art history courses, including one pertinent to seminar; consent of instructor. (Variable)

**600:192. B.F.A. Seminar: Critical Issues in Contemporary Art - 2 hrs.**

Critical analysis and discussion of contemporary art. May be repeated once for credit. Prerequisite(s): admission to the B.F.A. degree program; junior standing; or consent of department head. (Variable)

**600:194(g). Professional Practices - 3 hrs.**

Career preparation for the contemporary visual artist, designer, art educator, or art historian; preparation for graduate school, and professional roles and responsibilities. Prerequisite(s): junior standing. (Offered Fall and Spring)

**600:196. B.F.A. Project I - 3 hrs.**

Investigation of individual concepts and techniques in studio preparation for Bachelor of Fine Arts exhibition. Prerequisite(s): admission to B.F.A. program; senior standing; consent of instructor. (Offered Fall and Spring)

**600:197. B.F.A. Project II - 3 hrs.**

Investigation of individual concepts and techniques culminating in professional Bachelor of Fine Arts exhibition. Prerequisite(s): 600:196; consent of instructor; B.F.A. exhibition must be scheduled concurrently. (Offered Fall and Spring)

**600:198. Independent Study.**

(Offered Fall and Spring)

**600:275. Graduate Studio.**

Investigation of personal visual concepts and techniques in a given studio area for qualified students who demonstrate intensive involvement and who seek professional competency. Individual instruction. Credit determined at time of registration. May be repeated for credit. Sections: 1. Ceramics; 2. Drawing; 3. Graphic Design; 4. Jewelry/Metals; 5. Painting; 6. Photography; 7. Printmaking; 8. Sculpture. Prerequisite(s): consent of Chairperson, Graduate Studies in Art. (Offered Fall and Spring)

**600:280. Seminar: Critique and Analysis - 2 hrs.**

Critical analysis and discussion of contemporary art. May be repeated for maximum of 4 hours. (Variable)

**600:295. Seminar in Teaching Art - 3 hrs.**

Exploration of various topics in art education. Special emphasis on teaching and learning theories, media and methods. Satisfies special methods elective for the professional core. Required to be taken twice for a maximum of 9 hours. (Variable)

**600:297. Practicum.**

(Variable)

**600:299. Research.**

(Offered Fall and Spring)

**620 English Language and Literature****620:002. College Writing Basics - 3 hrs.**

Prepares students with limited writing experience for 620:005; recommended for students who have ACT English scores of 17 or less. Emphasis on reading and writing a variety of increasingly-complex expository texts. Attention to developing and organizing ideas, revising, editing, and adapting written discourse for readers. Does not meet the Liberal Arts Core writing requirement; does not count toward minimum hours required for baccalaureate degree. No credit if prior credit in another college writing course. May be used to help satisfy UNI's high school English admissions requirement. (Variable)

**620:005. College Writing and Research - 3 hrs.**

Recommended for students who have ACT English and Reading scores of 18-26; students who have ACT English scores of 17 or less are advised to take 620:002 first. Emphasis on critical reading and the writing of a variety of texts with attention to audience, purpose, and rhetorical strategies. Attention to integrating research materials with students' critical and personal insights. Satisfies the Liberal Arts Core writing and reading requirement. No credit if prior credit in 620:015 or 620:034. Prerequisite(s):

## 620 English Language and Literature

UNI's high school English admissions requirement. (Offered Fall, Spring, and Summer)

### **620:015. Craft of Academic Writing - 3 hrs.**

Strategies of scholarly research and writing: devising research problems, finding and evaluating credible sources, writing and revising convincing academic arguments. Satisfies the Liberal Arts Core writing and reading requirement. Prerequisite(s): combined ACT English and Reading scores of 54 or above, or 620:005, or consent of department. (Offered Fall and Spring)

### **620:031. Introduction to Literature - 3 hrs.**

Understanding and appreciation of the basic forms of literature through close reading of literary texts, including works originally written in English. An option in the Liberal Arts Core; does not count for credit on any English Department major or minor unless otherwise noted. No credit if prior credit in 620:034. (Offered Fall and Spring)

### **620:034. Critical Writing About Literature - 3 hrs.**

Study of techniques of various literary forms including poetry, drama, and fiction. Attention to processes and purposes of critical and scholarly writing and to documentation. Introductory course for English Department majors and minors. Prerequisite(s): combined ACT English and Reading scores of 54 or above, or 620:005. (Offered Fall and Spring)

### **620:035. Introduction to Film - 3 hrs.**

Examination at introductory level of four film genres: narrative, documentary, animated, and experimental; preparation for further work, either individually or academically. Prerequisite(s): 620:005. (Variable)

### **620:040. Multicultural Literature - 3 hrs.**

Selected texts from multicultural literatures of the United States (e.g., African American, Asian American, Hispanic American, Jewish American, Native American); may also include texts from postcolonial literatures. Prerequisite(s): 620:005 or 620:015 or 620:034. (Offered Fall and Spring)

### **620:042. Survey of English Literature to Early Modernity - 3 hrs.**

Broad historical, cultural, theoretical, and formal consideration of artful expressions by English speaking peoples from the earliest documentary witnesses through early modernity. Prerequisite(s) or corequisite(s): 620:034. (Offered Fall and Spring)

### **620:043. Survey of English Literature: Romanticism to Post-Colonialism - 3 hrs.**

Broad historical, cultural, theoretical, and formal consideration of artful expressions by English speaking peoples from the British Romantic Movement to contemporary world writing. Prerequisite(s) or corequisite(s): 620:034. (Offered Fall and Spring)

### **620:053. Survey of American Literature - 3 hrs.**

Historical, cultural, theoretical, and/or formal study of literature from the geographical area that has become the United States. Genres may include drama, fiction, film, non-fiction, poetry, and other literary and cultural texts. Prerequisite(s) or corequisite(s): 620:034. (Offered Fall and Spring)

### **620:070. Beginning Poetry Writing - 3 hrs.**

Attention to fundamental elements of poetry - image, metaphor, rhythm, meter, and word-music - through reading and writing. Prerequisite(s): 620:005. (Offered Fall and Spring)

### **620:071. Beginning Fiction Writing - 3 hrs.**

Attention to fundamental elements in the writing of fiction including setting, narration, plot, characterization, and dialogue. Prerequisite(s): 620:005. (Offered Fall and Spring)

### **620:077. Introduction to Professional Writing - 3 hrs.**

Emphasis on careers in professional writing; includes history of the profession, career options, professional responsibilities, key theoretical perspectives, lab experiences with industry-standard communication technologies. Prerequisite(s) or corequisite(s): 620:005. (Offered Fall)

### **620:102(g). Designing Reports - 3 hrs.**

Examining and designing research reports; using designer's resources to prepare professional manuscripts; conducting research using published

sources. Prerequisite(s) or corequisite(s): 150:080 or 620:077 or consent of instructor; junior standing. (Variable)

### **620:103. The Personal Essay - 3 hrs.**

Writing various types of essays (e.g., narrative, descriptive, expository, and persuasive); attention to stylistic questions and possibilities. Prerequisite(s): 620:005 or 620:015 or 620:034; junior standing or consent of instructor. (Offered Fall and Spring)

### **620:104(g). Designing Proposals - 3 hrs.**

Examining, writing, and designing persuasive documents for professional settings: analyses, reviews, and evaluations; problem-analysis-recommendation reports; and proposals. Prerequisite(s): 150:080 or 620:077 or consent of instructor; junior standing. (Variable)

### **620:105(g). Designing Manuals and Handbooks - 3 hrs.**

Examining, writing, and designing manuals, handbooks, and similar professional documents with emphasis on definitions, instructions, and document testing. Prerequisite(s): 150:080 or 620:077 or consent of instructor; junior standing. (Variable)

### **620:106(g). Scientific and Technical Writing - 3 hrs.**

Designing scientific and technical documents. Emphasizes audience and purpose, team work, layout/design, and professionalism. Topics include correspondence, specifications, proposals, reports, data and graphics, and web documents. Prerequisite(s): 620:005 or consent of instructor; junior standing. (Variable)

### **620:107(g). Professional Editing - 3 hrs.**

Examination of editing strategies and responsibilities in scholarly and professional settings. Emphasis on understanding of editing resources, editor roles in document development, and the politics of grammar and style. Prerequisite(s): 620:077 or consent of instructor; junior standing. (Variable)

### **620:108(g). Craft of Poetry - 3 hrs.**

Written exercises in forms, patterns, and techniques of poetry. Readings in poetry, including contemporary poetry, with particular attention to poetic structures and strategies. Prerequisite(s): 620:070 or consent of instructor; junior standing. (Variable)

### **620:109(g). Craft of Fiction - 3 hrs.**

Written exercises in forms, patterns, and techniques of fiction. Readings in fiction with particular attention to narrative structures and strategies. Prerequisite(s): 620:071 or consent of instructor; junior standing. (Variable)

### **620:110(g). Old English Language, Literature, and Culture - 3 hrs.**

Introduction to the language and culture of Anglo-Saxon England (ca. 500-1100 CE) with reference to its most important document, the folk epic, *Beowulf*. Prerequisite(s): junior standing. (Variable)

### **620:113(g). Early Modern Drama - 3 hrs.**

Emphasis on contemporaries of Shakespeare such as Marlowe, Jonson, and Webster; includes selected premodern, Restoration, and 18th- and 19th-century dramas. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

### **620:115(g). Modern Drama - 3 hrs.**

Twentieth-century American, British, and European drama; may include drama from other cultures. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

### **620:116(g). English Renaissance - 3 hrs.**

Non-dramatic literature of the English Renaissance, 1485-1660. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

### **620:117(g). 18th-Century British Literature - 3 hrs.**

Major writers of satire, verse, and prose including Dryden, Swift, Pope, and Johnson. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

### **620:118(g). British Romantic Writers - 3 hrs.**

Focus on the poetry and prose of the Lake Poets (Wordsworth and



Coleridge) members of the Joseph Johnson circle (Wollstonecraft, Godwin, and Blake), and the Leigh Hunt circle (Byron, Keats, and the Shelleys). Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:119(g). British Victorian Writers - 3 hrs.**

Focus on the poetry and prose of major writers (e.g., Tennyson, Browning, Arnold, and Ruskin), as well as on members of "The Fleshly School of Poetry" (the Pre-Raphaelites and Swinburne) and the Aesthetes (Wilde and his circle). Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:120(g). 20th-Century British Novel - 3 hrs.**

Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:121(g). The American Renaissance - 3 hrs.**

U.S. writers of the mid-1800s such as Hawthorne, Melville, Emerson, Stowe, Douglass, and Thoreau; attention to literary engagements with controversial reforms including the anti-slavery, labor, and women's movements. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:123(g). American Realism and Naturalism to WWI - 3 hrs.**

Literary selections 1870 to World War I; emphasis on fiction. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:124(g). 20th-Century American Novel - 3 hrs.**

Examination of significant novels and literary approaches in the United States during the 1900s. Includes focus on the development of modernism and postmodernism. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:126(g). Genre Seminar: \_\_\_\_\_ - 3 hrs.**

Intensive study of a genre - for example, novella, long poem, memoir, short fiction, satire, science fiction. May include attention to the genre's history, representative texts, and/or relevant literary theory. May be repeated for credit on different topics. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:128(g). Images of Women in Literature - 3 hrs.**

Images, symbols, and myths of women in literature; feminist criticism. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:134(g). Modern/Postmodern Poetry - 3 hrs.**

Study of 20th-century poetry written in English. May focus intensively on poetry written during the period from 1914 through World War II or the period from 1945 to the present. Specific topic may be listed in semester Schedule of Classes. May be repeated for credit on different topics. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:139(g). Film and Literature - 3 hrs.**

Attention to cinematic adaptations of various literary prose works; aesthetic, cultural, genre, and other factors that influence adapting print to film media. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:142(g). Film History - 3 hrs.**

Survey of artists, historical movements, and styles from silent and sound eras; focus on Classical Hollywood and its alternatives (Soviet, Italian Neorealism, French New Wave, and New German Cinema). Prerequisite(s): 620:034 or 620:035 or consent of instructor; junior standing. (Variable)

**620:144(g). Chaucer - 3 hrs.**

Poetry of Chaucer; may include other medieval writers. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:147(g). Milton - 3 hrs.**

Milton's major English poetry and prose. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:148(g). Shakespeare - 3 hrs.**

Advanced study of selected plays and poems in historical and bio-

graphical contexts as well as in terms of the history of Shakespeare studies. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:150(g). Author Seminar: \_\_\_\_\_ - 3 hrs.**

Intensive study of one or more authors, canonical or non-canonical; may focus on lesser-read texts and genres. Topic listed in semester Schedule of Classes. May be repeated for credit on different topics. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:151(g). Early American Literature - 3 hrs.**

Diverse literary and cultural expressions of the American experience from early European contact through the 1820s. Genres include autobiography, religious writing, captivity narrative, poetry, and the novel. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:153(g). American Poetry to 1914 - 3 hrs.**

Examination of selected elite and popular traditions in American poetry from the colonial period to the stirrings of modernism. Includes extended discussion of Whitman and Dickinson in their literary, cultural, and theoretical contexts. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:155(g). European Novel - 3 hrs.**

Major works of prose fiction (in English translation) by writers such as Cervantes, Stendhal, Flaubert, Dostoevsky, Tolstoy, and Mann. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:156(g). British Novel to 1900 - 3 hrs.**

Major fiction writers such as Fielding, Sterne, Austen, Dickens, Thackeray, the Brontës, George Eliot, and Hardy. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:157(g). African American Literature - 3 hrs.**

Study of African American literature in a variety of forms and genres: Black Vernacular (spirituals, blues, jazz, and folktales), slave narratives, poetry, fiction, drama, film, and autobiography. Prerequisite(s): 620:034 or 620:040 or consent of instructor; junior standing. (Variable)

**620:158(g). Asian American Literature - 3 hrs.**

Texts by North American writers of Asian descent, selected from fiction, drama, poetry, memoirs, oral history, and film. Attention to significant themes, literary innovations, and cultural sensitivity in reading and interpreting ethnic literature. Prerequisite(s): 620:034 or 620:040 or consent of instructor; junior standing. (Variable)

**620:161(g). Literary Criticism - 3 hrs.**

Important modern and traditional critical positions and their application to imaginative literature. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:163(g). Theory and Practice of Writing - 3 hrs.**

Detailed examination and application of major theories of writing: formal, cognitive, social, expressive, rhetorical, and contextual. Prerequisite(s): 620:005 or 620:015 or 620:034; junior standing. (Variable)

**620:165(g). Literature for Young Adults - 3 hrs.**

Reading and evaluation of literature suitable for adolescents. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Offered Fall, Spring, and Summer)

**620:168(g). Teaching Media Literacy - 3 hrs.**

Theory and practice of teaching media literacy skills; attention to integrating the study of media into existing language arts curricula. Prerequisite(s): junior standing. (Variable)

**620:172(g). Literary Nonfiction - 3 hrs.**

Study of artful texts about actual people, places, and events: selected from memoirs and autobiographies, biographies, histories, journalism, nature, travel, science, and essay writing. Attention to techniques used in creative nonfiction and to issues of accuracy, privacy, and "truth." Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

**620:174(g). Poetry Workshop - 1-6 hrs.**

Advanced peer workshop focusing on relevant genres, techniques, and

## 620 English Language and Literature

poets, with emphasis on the contemporary poetic situation. May be repeated for maximum of 9 hours. Prerequisite(s): 620:108 or consent of instructor; junior standing. (Variable)

### **620:175(g). Fiction Workshop - 1-6 hrs.**

Advanced peer workshop focusing on refining techniques of fiction writing and on contemporary fiction. May be repeated for maximum of 9 hours. Prerequisite(s): 620:109 or consent of instructor; junior standing. (Variable)

### **620:177(g). Project Management - 3 hrs.**

Individuals and teams develop, design, and produce professional documents for clients. Topics include project planning, resource management, and budget development. Prerequisite(s): 620:102; 620:104; 620:105; 620:107; or consent of instructor; junior standing. (Variable)

### **620:182(g). Film Theory and Criticism - 3 hrs.**

Survey of major approaches to cinema including both the early schools (Realist, Genre Studies, and Auteurist) and the post-structural explosion (Marxist, Psychoanalytic, and Contextual Studies). Prerequisite(s): 620:034 or 620:035 or consent of instructor; junior standing. (Variable)

### **620:184(g). Sexed/Gendered Literature - 3 hrs.**

Exploring cultural constructions of gender and sexuality in literature; may include other media. Specific topic may be listed in Schedule of Classes. May be repeated for credit on different topics. Prerequisite(s): junior standing. (Variable)

### **620:187. Blues and Jazz in African American Film and Literature - 3 hrs.**

African American experiences in Spirituals, Blues, Gospel, Ragtime, Jazz, and Rap/Hip-Hop applied to study of narrative strategies, themes, and ideologies of resistance and survival in African American films and literature. Prerequisite(s): junior standing. (*Same as CAP:187*) (Variable)

### **620:188(g). Seminar in Literature: \_\_\_\_\_ - 3 hrs.**

Topic listed in Schedule of Classes. May be repeated for credit on different topics. Prerequisite(s): 620:034 or consent of instructor; junior standing. (Variable)

### **620:190(g). The Teaching of English - 3 hrs.**

Preparation for teaching secondary English (7-12); teaching of literature and media, reading and writing, and speaking and listening; attention to curriculum design, language development and use, and evaluation. Prerequisite(s): 200:128; 200:148; 250:150; junior standing. (Offered Fall and Spring)

### **620:191(g). Seminar for the Student Teacher - 1 hr.**

Intensive course to integrate 620:190 with the student teaching experience. Offered on credit/no credit basis only. Prerequisite(s): junior standing. Corequisite(s): 280:138. (Variable)

### **620:193(g). The Teaching of Writing - 3 hrs.**

Theory, research, and practice in teaching the composing, revising, and editing of written discourse for various audiences and purposes; attention to development of writing and language abilities, course design, and implementation and evaluation strategies. Prerequisite(s): 620:005 or consent of instructor; junior standing. (Offered Fall and Spring)

### **620:194. Practicum: Tutoring Writing - 3 hrs.**

Training in processes of writing and techniques of tutoring writing; application of training to tutoring students in writing skills and writing projects. Prerequisite(s): 620:005; sophomore standing; consent of instructor. (Variable)

### **620:195(g). Seminar in Teaching College Writing - 3 hrs.**

Preparation to teach introductory college writing; focus on designing syllabi, planning classes, and creating writing assignments. Attention to theoretical issues that inform classroom practice. Prerequisite(s): senior standing; consent of instructor. (Offered Fall)

### **620:197(g). Professional Writing Practicum - 1-6 hrs.**

Students undertake individual, supervised writing, editing, and document preparation assignments outside the classroom environment. Assignments vary. May be repeated for maximum of 6 hours. Prerequisite(s): 620:177; junior standing. (Variable)

### **620:198. Independent Study.**

(Offered Fall and Spring)

### **620:201. Introduction to Graduate Study in English - 3 hrs.**

Introduction to problems, techniques, and tools of graduate-level study and research in English; to be completed before 9 hours earned in the M.A. program. Prerequisite(s): written consent of English Graduate Coordinator. (Offered Fall)

### **620:204. Topics in Literary Criticism - 3 hrs.**

Selected problems in the theory of literary art, the history of criticism, and the interpretation of particular works. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:206. Feminist Literary Theories and Practice - 3 hrs.**

Examination of how writers transform society's beliefs about the nature and function of women into literary plots, images, and themes, and how, in turn, these influence society's attitudes toward women. Emphasis on socio-historical approaches prevalent in the United States; attention to British political and French psychoanalytic critics. Prerequisite(s) or corequisite(s): 620:201 or 680:289 or consent of instructor. (Variable)

### **620:208. Contemporary Literary Theory - 3 hrs.**

Attention to major developments such as semiotics, psychoanalysis, post-structuralism, post-modernism, reception theory, multicultural and postcolonial studies, feminism, and gender studies. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:220. Medieval English Literature - 3 hrs.**

Examination of how medieval English writers transform the cultural, social, theological, philosophical, and ideological experiences of medieval society into literary language, structures, themes, and genres. Literary texts read in the original Old English or Middle English or in modern English translation. Specific topic may be listed in Schedule of Classes. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:221. English Renaissance Literature - 3 hrs.**

(1485-1660). Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:223. Restoration and 18th Century English Literature - 3 hrs.**

(1660-1798). Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:225. 19th Century English Literature - 3 hrs.**

(1798-1900) Romantic or Victorian. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:226. Modern English Literature - 3 hrs.**

(1900-1945). Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:231. American Romantic Literature - 3 hrs.**

American literature written between 1820 and 1870 that engages major romantic ideas about human nature, divinity, the environment, aesthetics, and social reform. May include one or more contemporary works of American neo-romanticism. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:232. Issues in American Literature, 1865-1914 - 3 hrs.**

Post-Civil War American literature that responds to issues such as Reconstruction, immigration, industrialization, changing women's roles, Darwinism, and Freudian psychoanalysis. Particular attention to the development of realism, naturalism, and regionalism in fiction. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:234. Modern American Literature - 3 hrs.**

(1912-1945). Prerequisite(s) or corequisite(s): 620:201 (Variable)

### **620:260. Contemporary Literature - 3 hrs.**

Literature from 1945 to present; may include poetry, drama, and/or fiction. Specific topic may be listed in Schedule of Classes. May be repeated for credit on different topics. Prerequisite(s) or corequisite(s): 620:201. (Variable)

### **620:270. Graduate Creative Writing Workshop - 3 hrs.**

Multi-genre workshop emphasizing peer critique of student writing, with attention to craft, contemporary literature, and the writing life. May be repeated for maximum of 9 hours credit. Prerequisite(s): 620:108 or 620:109 or written consent of instructor. Prerequisite(s) or corequisite(s): 620:201. (Variable)

**620:284. Seminar in Literature - 3 hrs.**

Selected generic, thematic, or critical topic or specific writer. Topic listed in Schedule of Classes. May be repeated for credit. Prerequisite(s) or corequisite(s): 620:201. (Variable)

**620:291. Seminar in the Teaching of English - 3 hrs.**

Prerequisite(s) or corequisite(s): 620:201 (Variable)

**620:297. Practicum.**

Graduate-level student teaching. Prerequisite(s): consent of instructor. Prerequisite(s) or corequisite(s): 620:201 (Variable)

**620:299. Research.**

Prerequisite(s) or corequisite(s): 620:201 (Offered Fall, Spring, and Summer)

**630 TESOL/Applied Linguistics****630:125(g). Introduction to Linguistics - 3 hrs.**

Examination of phonology, syntax, and semantics in a variety of natural and artificial languages; includes study of language development and regional and social variation. No credit if prior credit in 630:130. Prerequisite(s): junior standing or consent of TESOL major advisor. (Offered Fall and Spring)

**630:130(g). The Structure of English - 3 hrs.**

Linguistic analysis of phonology, syntax, and semantics in modern American English; study of language development and regional and social variation. No credit if prior credit in 630:125. Prerequisite(s): junior standing or consent of TESOL major advisor. (Offered Fall and Spring)

**630:143(g). History of the English Language - 3 hrs.**

Developmental survey of the English language from its beginnings to the present as a product of linguistic change and variation, political history, and social attitude. Prerequisite(s): 630:125 or 630:130; junior standing. (Variable)

**630:154(g). Phonology - 3 hrs.**

Sound systems of human languages, including articulatory and acoustic phonetics, structural phonetics, distinctive features, and generative phonology. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 630:125 or 630:130. (Variable)

**630:160(g). Sociolinguistics - 3 hrs.**

Study of language and society, including language variation associated with such factors as geography, socioeconomic class, and gender. Prerequisite(s): 630:125 or 630:130; junior standing. (Variable)

**630:163(g). Cultural Aspects of Language and Language Teaching - 3 hrs.**

Investigation of relationship between language and culture and the interactions among language, social institutions, cultural beliefs, and individual behavior. Applications for teaching English to non-native speakers. Prerequisite(s): 630:125 or 630:130; junior standing. (Variable)

**630:165(g). Language Development - 3 hrs.**

Study of contemporary theory and research in first and second language acquisition with applications for teaching English to non-native speakers. Prerequisite(s): junior standing. (Variable)

**630:190(g). Applied English Linguistics for Teachers - 3 hrs.**

Linguistic insights applied to study of language use-writing, reading, spelling, and vocabulary; for prospective and current teachers of English. Prerequisite(s): 630:125 or 630:130; junior standing. (Variable)

**630:192(g). Problems in English Grammar - 3 hrs.**

Investigation of the grammatical system of English; emphasis on tools and processes used to identify and teach grammatical patterns. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 630:125 or 630:130. (Variable)

**630:193(g). TESOL I: Methods and Approaches - 3 hrs.**

Historical background of Teaching English to Speakers of Other Languages and overview of teaching approaches; teaching the four skills of listening, speaking, reading, and writing. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 630:125 or 630:130. (Offered Fall and Spring)

**630:194(g). TESOL II: Pedagogical Strategies - 3 hrs.**

Lesson planning, materials design and adaptation, materials evaluation, classroom assessment, and curriculum planning for Teaching English to Speakers of Other Languages. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 630:125 or 630:130. (Offered Fall and Spring)

**630:195(g). Modern English Grammar and Usage - 3 hrs.**

Intensive examination of English grammar, mechanics, and usage; rules of punctuation, spelling, syntax, and usage related to oral and written forms of English; discussion of the teaching of grammar. Prerequisite(s): junior standing. (Variable)

**630:196(g). Bilingual Education in the Public Schools - 3 hrs.**

Historical development of bilingual education and current approaches to meeting the needs of limited English proficient students; special emphasis on the principles of content-based second language instruction and the role of language attitudes in policy making. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 630:125 or 630:130. (Offered Spring)

**630:198. Independent Study.**

(Offered Fall and Spring)

**630:201. Introduction to Graduate Study in TESOL/Applied Linguistics - 3 hrs.**

Introduction to sources, tools, and techniques in graduate-level study and research in TESOL and language sciences. (Offered Fall)

**630:240. Computer Assisted Language Learning (CALL) - 3 hrs.**

Exploration of purposes, applications, and roles of computers in language learning and language testing; application to skills of reading, writing, listening, and speaking. Use of internet resources and tools. (Offered Fall)

**630:254. Seminar in Phonology - 3 hrs.**

(Variable)

**630:256. Seminar in Syntax - 3 hrs.**

(Variable)

**630:289. Seminar in Language - 3 hrs.**

Topic listed in Schedule of Classes. May be repeated for credit on different topics. (Offered Fall and Spring)

**630:292. Second Language Acquisition - 3 hrs.**

Historical background and methodology of second language acquisition research; current theories of acquisition and learning; role of individual and societal variables in language learning. (Offered Fall)

**630:295. Language Testing - 3 hrs.**

Examination of basic approaches and techniques for constructing and interpreting language tests. (Offered Spring)

**630:297. Practicum.**

Graduate-level student teaching of English as a second language. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**630:299. Research.**

(Offered Fall and Spring)

**640 World Religions****640:024. Religions of the World - 3 hrs.**

Living religions with emphasis on texts, beliefs, tradition, values, and practices. (Offered Fall, Spring, and Summer)

**640:030. What is Religion? - 3 hrs.**

Basic forms and views of religious phenomena, such as encounter, tradition, ritual, community, divine law, meditation, mysticism, response to life-crisis, and personal growth and fulfillment. (Variable)

**640:040. Religion, Ethics, and Film - 3 hrs.**

Introduction to study of religion through critical examination of a variety of contemporary films. Draws on student visual literacy as approach to the study of religion. (Variable)

**640:110. Angels Across Cultures - 3 hrs.**

Study of the persistent belief in angels and angel-like, superhuman be-

## 640 World Religions

ings in different religions and cultures, and examination of dynamics of popular religion. (Offered Odd Springs)

### **640:113(g). Philosophy of Religion - 3 hrs.**

Examination of philosophical discussions on the nature and function of religion and religious language; special attention to how philosophical frameworks and methods shape understanding of religion and talk about God and human fulfillment. Prerequisite(s): junior standing. (*Same as 650:113g*) (Offered Even Springs)

### **640:115(g). Religion and Its Critics - 3 hrs.**

Issues raised by encounter between traditional Christian faith and modern concepts and methods of philosophy, science, history, sociology, and cultural criticism. Examination of positions of both 19th- and 20th-century theologians. Prerequisite(s): junior standing. (Offered Odd Springs)

### **640:117(g). Religion in America - 3 hrs.**

Investigation of religious movements and beliefs from colonial times to present. 640:024 or 650:021 recommended to precede this course. Prerequisite(s): junior standing. (*Same as 961:145g*) (Offered Odd Springs)

### **640:126. Meditation and Mystical Experience - 3 hrs.**

Examination of various techniques of meditation and their results, drawing from Yoga, Zen, Buddhist, Christian, and secular sources including first-hand accounts of meditational practice and philosophic and psychological studies in the area of mysticism. (Variable)

### **640:130. Great Living Religions: Hinduism and Buddhism - 3 hrs.**

Hinduism, Jainism, Buddhism, Islam. (Offered Even Falls)

### **640:132. Confucianism, Daoism, and Zen - 3 hrs.**

Daoism, Confucianism, Buddhism, Shintoism. (Offered Odd Falls)

### **640:134. Great Living Religions: Judaism and Islam - 3 hrs.**

Study of the doctrines and practices of Judaism and Islam in their cultural context with attention to historical development and current situation. (Offered Odd Springs)

### **640:136. Great Living Religions: Christianity - 3 hrs.**

Introductory survey of development, beliefs, practices, and varieties of Christianity. (Offered Even Springs)

### **640:138. Malcolm, Martin, and Justice - 3 hrs.**

How might religious leaders insert themselves in the struggle for justice and human rights? Malcolm X and Martin Luther King, Jr. represent the intricate involvement of black religious leaders in the African American struggle for social, political, and economic justice. (*Same as 680:138*) (Variable)

### **640:140. Black Liberation and the Black Church - 3 hrs.**

Explores black liberation in America through advancing the understanding of black nationalism, the black church, and black liberation theology from an historical and social/political perspective. Some knowledge of African American culture and thought recommended. (Variable)

### **640:141. Old Testament and Other Hebrew Scriptures - 3 hrs.**

Introduction to history and ideas of Old Testament and other Hebrew scriptures. (Offered Fall)

### **640:142. New Testament and Early Christian Writings - 3 hrs.**

Introduction to history and ideas of New Testament and early Christian writings. (Offered Spring)

### **640:152(g). Existentialism - 3 hrs.**

The unique contribution of existentialism to philosophy is its sustained focus on everyday life: the contradictions of human existence, the human body, the existence of others, and human freedom. Presupposes no previous knowledge of philosophy. Prerequisite(s): junior standing. (*Same as 650:152g*) (Offered Odd Falls)

### **640:154(g). Myth and Symbol - 3 hrs.**

Investigation of meaning and significance of religious myths and symbols, and theories used to study them. Prerequisite(s): junior standing. (Variable)

### **640:158(g). Why We Believe - 3 hrs.**

What do witches, monsters, and gods have in common? This course

draws on psychology to explore children's imaginative play and responses to fairy tales to understand how we develop our capacity for religious belief. Prerequisite(s): junior standing. (Offered Odd Falls)

### **640:161. Religion, Magic and Witchcraft - 3 hrs.**

Anthropological understanding of behavior dealing with the supernatural; supernatural beliefs, practices, and movements throughout the world. (*Same as 990:161*) (Offered Spring)

### **640:162(g). Women and Christianity - 3 hrs.**

Examination of history and function of gender in symbolization of Christian tradition; exploration of institutionalization of sex roles in Christianity; discussion of interaction between the Christian religion and cultural patterns that define the social role, status, and image of women. Interested students are encouraged to contact the instructor. Prerequisite(s): junior standing. (Variable)

### **640:165(g). Religion and Society - 3 hrs.**

Religious institutions and their social context; changes and development in religion; religious organization and behavior; and social function of religion. Prerequisite(s): junior standing. (Offered Even Falls)

### **640:168(g). Religion and Sexuality - 3 hrs.**

Examination of ways in which religions shape and reflect ideas about the body and sexuality. Prerequisite(s): junior standing. (Variable)

### **640:171. Religion and Ethics - 3 hrs.**

Examination of key issues having to do with religion and ethics, including the moral function of religion, religious pluralism, war and peace, freedom and responsibility, religion and politics, religion and gender, and social justice. (Offered Fall)

### **640:173. Bio-Medical Ethics - 3 hrs.**

Application of principles and analytic methods of ethical theory to contemporary issues in medical practice and research. Topics include fundamental concepts of health and disease, life and death; rights and obligations of medical practitioners and their patients; informed consent and confidentiality; abortion and euthanasia; reproductive and transplantation technologies; and health policy and the provision and rationing of health care. Prerequisite(s): junior standing. (*Same as 650:173 and CAP:173*) (Offered Fall and Spring)

### **640:174(g). Ethics in Business - 3 hrs.**

Application of ethical principles and analytic methods to contemporary issues in business. Topics include moral responsibility of corporations and their regulation; economic policy, business practices, and social justice; rights and obligations of employers and employees; meaningful work, motivation, and the worker; affirmative action and reverse discrimination; and environment and natural limits of capitalism. Prerequisite(s): junior standing. (*Same as 150:174g and 650:174g*) (Offered Fall and Spring)

### **640:175(g). Environmental Ethics - 3 hrs.**

Introduction to and application of ethical theory to environmental issues, including responsibility for plants and animals, pollution, natural resources, and population growth. Prerequisite(s): junior standing. (*Same as 650:175g*) (Offered Odd Falls)

### **640:186(g). Studies in Religion - 3 hrs.**

Topics listed in Schedule of Classes. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **640:189(g). Individual Readings in Religion - 1-3 hrs.**

Individually-arranged readings and reports from: (1) biblical studies, (2) history of religions, or (3) contemporary religious thought. Can be repeated for maximum of 6 hours. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

### **640:194. Perspectives on Death and Dying - 3 hrs.**

Multidisciplinary study of death, dying, and bereavement across cultures, religious and ethnic groups, and historical periods, with attention to ritual and memoir, ethical dilemmas at the end of life, and psychology of mourning. Prerequisite(s): junior standing. (*Same as 650:194 and CAP:194*) (Offered Fall and Spring)

**640:197. Ethics Practicum - 3 hrs.**

Combines service-learning with study of theoretical and applied ethics. Students work 4-6 hours per week in a community agency and meet with instructor. Prerequisite(s): one completed or concurrent ethics course; consent of instructor. (*Same as 650:197*) (Offered Fall and Spring)

**640:250. Critical Perspectives on Gender - 3 hrs.**

Consideration of two traditions that have influenced feminist theories in the last two decades - poststructuralism and psychoanalysis. Readings in primary texts (e.g., Foucault, Derrida, Freud, and Lacan) and explorations of feminist elaborations and critiques of these texts revealing the tenacity, centrality, and power in human lives of a sense of gendered existence. (*Same as 650:250*) (Offered Even Springs)

**650 Philosophy****650:021. Philosophy: The Art of Thinking - 3 hrs.**

Introductory exploration of questions concerning nature of self, reality, meaning, knowledge, truth, faith, value, and obligation. (Offered Fall and Spring)

**650:045. Elementary Logic - 3 hrs.**

Methods, principles, and rules of reasoning with emphasis on their practical uses in effective thinking, scientific inquiry, and verbal communication. (Offered Fall and Spring)

**650:050. Reasoning About Moral Problems - 3 hrs.**

Introduction to critical thinking and writing about moral and social problems. Topics may include hunger, economic justice, anti-Semitism, sexism, animal rights, affirmative action, abortion, and homosexuality. (Variable)

**650:100. History of Philosophy: Ancient - 3 hrs.**

History of philosophy from the Pre-Socratics to late antiquity, with emphasis on Plato and Aristotle. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Odd Falls)

**650:101. History of Philosophy: Medieval - 3 hrs.**

History of philosophy from late Roman times through Middle Ages, with emphasis on Augustine and Thomas Aquinas. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Even Springs)

**650:103. History of Philosophy: Renaissance through Enlightenment - 3 hrs.**

History of philosophy from Renaissance through Hume, with emphasis on continental rationalism and British empiricism. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Even Falls)

**650:104. History of Philosophy: Modern - 3 hrs.**

History of philosophy from Kant to present; emphasis on idealism, romanticism, materialism, positivism, phenomenology, existentialism. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Odd Springs)

**650:105(g). Marxisms - 3 hrs.**

Marxism as a critical method to examine social, political, and economic issues. Includes classic works of Marx and Engels, varieties of socialism and communism, 60s New Left, socialist feminism, liberation theology, third world liberation and anti-globalization movements. Prerequisite(s): junior standing. (Variable)

**650:113(g). Philosophy of Religion - 3 hrs.**

Examination of philosophical discussions on the nature and function of religion and religious language; special attention to how philosophical frameworks and methods shape understanding of religion and talk about God and human fulfillment. Prerequisite(s): junior standing. (*Same as 640:113g*) (Offered Even Springs)

**650:119. Philosophy of Science - 3 hrs.**

Philosophical problems of the sciences; nature of laws and theories, cau-

sation, explanation and scientific method, and relation between natural and social sciences. (Variable)

**650:142. Ethics - 3 hrs.**

Study of the major school of ethical theory through reading major thinkers and their contemporary commentators. Examination of selected theoretical and practical problems in contemporary ethics. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Fall and Spring)

**650:143. Philosophy of Art - 3 hrs.**

Examines the question of the nature of art through a discussion of the major philosophical theories: imitation theory, expression theory, and formalism, as well as a critique of these theories. Field trips included. Prerequisite(s): one philosophy course and sophomore standing, or consent of instructor. (Offered Even Falls)

**650:150(g). Knowledge and Reality - 3 hrs.**

Study of variety of knowledge-claims about the world and of the structures of reality implied. Prerequisite(s): junior standing. (Offered Fall)

**650:151. Money, Sex and Power: Theories of Race, Class and Gender - 3 hrs.**

Examination of social and ethical aspects of oppression and privilege in personal and political life. Study of concepts and meaning of categories such as race, ethnicity, class, gender and sexuality, and evaluation of strategies of resistance and/or accommodation. Prerequisite(s): junior standing. (*Same as CAP:151*) (Variable)

**650:152(g). Existentialism - 3 hrs.**

The unique contribution of existentialism to philosophy is its sustained focus on everyday life: the contradictions of human existence, the human body, the existence of others, and human freedom. Presupposes no previous knowledge of philosophy. Prerequisite(s): junior standing. (*Same as 640:152g*) (Offered Odd Falls)

**650:153(g). The Human Person - 3 hrs.**

Philosophical study of human nature and mind informed by biology and modern sciences of mind. Topics include relation of mind to body, consciousness, free will, the implications of Darwinism, and the nature of emotions. Prerequisite(s): junior standing. (Offered Odd Springs)

**650:160(g). Phenomenology and Foucault - 3 hrs.**

Examination of phenomenology, the description of basic structures of human experience. Focus on Martin Heidegger and others on conscious, practical, social, mortal, and embodied life; then Michel Foucault on forms of power in social science and modern culture. Prerequisite(s): junior standing. (Variable)

**650:164(g). Nietzsche, Nihilism, and the "Overcoming" of Western Metaphysics - 3 hrs.**

Examination of Nietzsche's genealogy, diagnosis, and prognosis of contemporary nihilism, the experience of one's values as empty or meaningless. Examination of Heidegger's later critique of Nietzsche's views as expressions of problematic aspects of the modern technological age. Prerequisite(s): junior standing. (Variable)

**650:166(g). Philosophy of Language: Wittgenstein - 3 hrs.**

Examination of Wittgenstein, sometimes called "the two most important philosophers" of the 20th century. Topics include language and formal logic, language as social practice, and ways in which classic philosophical problems arise from a misunderstanding of how we use common words. Prerequisite(s): junior standing. (Variable)

**650:172. Society, Politics, and the Person - 3 hrs.**

Critical investigation of contexts of engagement and responsibility of persons as members of social institutions and as participants in public discourse on policy and law. (Offered Even Springs)

**650:173. Bio-Medical Ethics - 3 hrs.**

Application of principles and analytic methods of ethical theory to contemporary issues in medical practice and research. Topics include fundamental concepts of health and disease, life and death; rights and ob-

## 650 Philosophy/680 Humanities

ligations of medical practitioners and their patients; informed consent and confidentiality; abortion and euthanasia; reproductive and transplantation technologies; and health policy and the provision and rationing of health care. Prerequisite(s): junior standing. (*Same as 640:173 and CAP:173*) (Offered Fall and Spring)

### **650:174(g). Ethics in Business - 3 hrs.**

Application of ethical principles and analytic methods to contemporary issues in business. Topics include moral responsibility of corporations and their regulation; economic policy, business practices, and social justice; rights and obligations of employers and employees; meaningful work, motivation, and the worker; affirmative action and reverse discrimination; environment and natural limits of capitalism. Prerequisite(s): junior standing. (*Same as 150:174g and 640:174g*) (Offered Fall and Spring)

### **650:175(g). Environmental Ethics - 3 hrs.**

Introduction to and application of ethical theory to environmental issues, including responsibility for plants and animals, pollution, natural resources, and population growth. Prerequisite(s): junior standing. (*Same as 640:175g*) (Offered Odd Falls)

### **650:186(g). Studies in Philosophy - 3 hrs.**

Study of philosophical thinker or problem listed in Schedule of Classes. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **650:189(g). Individual Readings in Philosophy - 1-3 hrs.**

Individually arranged readings and reports drawn from history of philosophy or contemporary philosophical problems. May be repeated for maximum of 6 hours. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

### **650:194. Perspectives on Death and Dying - 3 hrs.**

Multidisciplinary study of death, dying, and bereavement across cultures, religious and ethnic groups, and historical periods, with attention to ritual and memoir, ethical dilemmas at the end of life, and psychology of mourning. Prerequisite(s): junior standing. (*Same as 640:194 and CAP:194*) (Offered Fall and Spring)

### **650:197. Ethics Practicum - 3 hrs.**

Combines service-learning with study of theoretical and applied ethics. Students work 4-6 hours per week in a community agency and meet with instructor. Prerequisite(s): one completed or concurrent ethics course; consent of instructor. (*Same as 640:197*) (Offered Fall and Spring)

### **650:245. Ethics in Public Policy - 2 hrs.**

Attention to major ethical issues facing practitioners of public policy analysis through: a study of ethical principles and procedures of analysis; application of these methods to crucial questions of professional conduct and responsibility; and their application to selected policy problems of timely interest. Prerequisite(s): enrollment in the Master of Public Policy Degree Program or consent of instructor. (Offered Fall)

### **650:250. Critical Perspectives on Gender - 3 hrs.**

Consideration of two traditions that have influenced feminist theories in the last two decades - poststructuralism and psychoanalysis. Readings in primary texts (e.g., Foucault, Derrida, Freud, and Lacan) and explorations of feminist elaborations and critiques of these texts revealing the tenacity, centrality, and power in human lives of a sense of gendered existence. (*Same as 640:250*) (Offered Even Springs)

## 680 Humanities

There is no Humanities Department as such. The courses below are interdisciplinary and are taught jointly by staff from several departments.

### **680:010. Leadership: Skills and Styles - 3 hrs.**

Basic principles and skills of personal leadership. Focus on clarifying values, motivating individuals, and organizing groups. Practical applications and use of case studies. (Variable)

### **680:021. Humanities I: The Ancient, Classical, and Medieval Worlds - 3 hrs.**

Literature, philosophy, religion, and the fine arts, integrated with the history of Western Civilization to 1300. (Offered Fall, Spring, and Summer)

### **680:022. Humanities II: The Renaissance, Reformation, and Enlightenment - 3 hrs.**

Literature, philosophy, religion, and the fine arts, integrated with the history of Western Civilization from 1300 to the French Revolution of 1789. (Offered Fall, Spring, and Summer)

### **680:023. Humanities III: The Age of Revolution to the Present - 3 hrs.**

Literature, philosophy, religion, and the fine arts integrated with the history of Western Civilization since the French Revolution of 1789. (Offered Fall, Spring, and Summer)

### **680:040. Women's and Gender Studies: Introduction - 3 hrs.**

Interdisciplinary study of women's and gender issues from historical and contemporary perspectives, using the methods and theories of feminist scholarship and gender analysis. Topics may include study of systems of domination and subordination, stereotyping and gender bias, intersections of gender, race, ethnicity, sexuality, class. (Offered Fall and Spring)

### **680:102(g). Nonverbal Communication - 3 hrs.**

Study of practices, theories and concepts related to patterns of human expression apart from the spoken or written word. Prerequisite(s): junior standing. (*Same as 48C:121g*) (Offered Fall and Spring)

### **680:110(g). Leadership: Concepts and Practice - 3 hrs.**

Analysis of relationship between leadership theory and practice. Focus on development of critical and evaluative skills. Historical and contemporary perspectives on leaders and issues. Prerequisite(s): 680:010; junior standing. (Offered Fall and Spring)

### **680:121. Russia/Soviet Union - 3 hrs.**

Interdisciplinary examination of the culture, history, geography, economy, political system, and society of Russia and the Soviet Union. (Offered Fall and Spring)

### **680:122. Japan - 3 hrs.**

Introductory study of Japan: geographical setting, historical background, cultural heritage, social and political systems, and economic development and importance. (Offered Fall and Spring)

### **680:123. Latin America - 3 hrs.**

Historical, political, social, and cultural elements that form the civilization of Latin America. No credit if student has credit in 780:120. (Offered Fall and Spring)

### **680:124. China - 3 hrs.**

Introduction to essential aspects of China, including geography, environment, demography, anthropology, history, language, religion, economic development, political changes, and foreign relations. (Offered Fall and Spring)

### **680:125. India - 3 hrs.**

Treatment of significant elements of Indian culture, historical development, and place in the world today. (Offered Fall and Spring)

### **680:127. Middle East - 3 hrs.**

Treatment of significant aspects of Middle Eastern culture, historical development, and place in the world today. (Variable)

### **680:128. Africa - 3 hrs.**

Interdisciplinary examination of contemporary African society and culture: historical heritage, problems, prospects, and importance. (Offered Fall and Spring)

### **680:130. Culture and Philosophy of African American Life - 3 hrs.**

Interdisciplinary exploration of culture and philosophy of African American life; emphasis on historical and current aspects of life which enhance or deter progress of African Americans educationally, economically, and politically. (Variable)

### **680:131. Practicum in African American Culture - 2 hrs.**

Opportunity to work on self-optional or assigned project; may include

work in public school system, volunteer bureaus, and/or community social agencies. May be repeated for maximum of 4 hours. Prerequisite(s) or corequisite(s): 680:130. (Variable)

**680:132. Native North America - 3 hrs.**

Ethnographic survey of sociocultural systems developed by Native Americans north of Mexico. Emphasis on relationships that exist among ecological factors, subsistence techniques, social organizations, and belief systems; and the impact interactions with European and U.S. societies had on Indian lifestyles. (*Same as 990:132*) (Variable)

**680:137. Native Central and South America - 3 hrs.**

Ethnographic focus on the sociocultural systems of the indigenous peoples of Mesoamerica, Amazon Basin and the Andean Highlands. Emphasis on inter-relationships among environment, history, social organizations and belief systems from a holistic and comparative perspective. (*Same as 990:137*) (Variable)

**680:138. Malcolm, Martin, and Justice - 3 hrs.**

How might religious leaders insert themselves in the struggle for justice and human rights? Malcolm X and Martin Luther King, Jr. represent the intricate involvement of black religious leaders in the African American struggle for social, political, and economic justice. (*Same as 640:138*) (Variable)

**680:151(g). Images of Blacks in the White Mind - 3 hrs.**

Exploration of the purposefully constructed image of blacks which reinforces inequality, the historical development of white supremacist ideology, and the disempowerment of blacks in the United States. Prerequisite(s): junior standing. (Variable)

**680:156(g). Topics in Gay/Lesbian/Bisexual Studies - 3 hrs.**

Survey of history of homosexuality and bisexuality from ancient Greeks to present; contributions to art, music, drama, and literature by persons who are or are considered to be homosexual/bisexual; and current sociological, political, and religious theories of homosexuality/bisexuality. May be repeated on different topic. Prerequisite(s): junior standing. (Variable)

**680:160(g). Black Women in America: Challenge, Spirit, Survival - 3 hrs.**

Investigation of major themes in lives of black women in America, utilizing scholarship from sociology, literature, cultural studies, and womanist theology. Challenges to fruitful existence and role of striving for self-representation direct the two major units of course. Prerequisite(s): junior standing. (Variable)

**680:169. Leadership Internship - 1-3 hrs.**

Field placement designed to further develop leadership abilities. Site placement determined in consultation with the Director of Leadership Studies. Prerequisite(s): 680:010; 680:110; consent of instructor and Director of Leadership Studies. (Variable)

**680:188. Seminar on Leadership Development: The Future - 1-2 hrs.**

Synthesis of theory and practice of leadership; examination of case studies and research on leadership issues and ethics; preparation of career plans that include service component. Prerequisite(s): 680:010; 680:110; junior standing or consent of instructor. (Variable)

**680:189(g). Seminar in Environmental Problems - 3 hrs.**

Experience in environmental problem solving of both a theoretical and practical nature. Prerequisite(s): junior standing; consent of instructor. (Variable)

**680:192. Junior-Senior Seminar - 3 hrs.**

Seminar in humanities offered to junior and senior majors in Humanities as listed in Schedule of Classes. Open to upperclass students of any major. May be repeated in different fields. (Variable)

**680:198. Independent Study.**

**680:289. Graduate Seminar in Women's and Gender Studies: Comparative Feminist Theories - 3 hrs.**

Analysis of identities and oppressions from national and international feminist perspectives. (Offered Fall)

**680:290. Graduate Seminar in Women's and Gender Studies: Library Research Methods - 1 hr.**

Library research strategies and methods. (Offered Spring)

## 690 Humanities, Interdepartmental

**690:030. Arts in the Americas - 3 hrs.**

Introduction to cross-cultural understanding of art, dance, film, music, and theatre in the Americas. Emphasis on forms, origins, directions, isolations, and interactions. Inter-departmentally team taught. (Variable)

## 700 Languages

**700:099. Preparation for Study Abroad - 2 hrs.**

For students planning to study and travel abroad. Practical, social, geographic, and cultural aspects; some emphasis on contrasting American and foreign cultures. No credit on major or minor in foreign language. (Offered Fall and Spring)

**700:190(g). The Teaching of Foreign Languages - 2-4 hrs.**

Foreign language theories, terms, concepts, and demonstration of their practical application. Note: In order to apply this course toward a teaching degree, students must be admitted to the Teacher Education Program *before* taking 700:190. Prerequisite(s): 7x0:101; junior standing. Corequisite(s): 7x0:191. (Offered Spring)

**700:192(g). Teaching Topics in Foreign Language Education - 2-4 hrs.**

Exploration of teaching topics related to foreign language education. Prerequisite(s): 7x0:101; junior standing. (Variable)

**700:193(g). Technology in Foreign Language Education - 2-3 hrs.**

Based on current research and methodological approaches, enables critical selection, integration, and application of modern technology in foreign language instruction. Prerequisite: junior standing. Prerequisite(s) or corequisite(s): 700:190; 7x0:191; or consent of instructor. (Offered Fall)

**700:198. Independent Study.**

(Variable)

**700:290. Theory and Practice in Foreign Language Teaching - 1-3 hrs.**

Synthesis of past and current theories of language acquisition with language teaching practice. May be repeated. Prerequisite(s): consent of instructor. (Offered Fall)

**700:295. Research Methods in Culture and Literature - 2-3 hrs.**

Prepares students in various aspects of cultural and literary criticism, use of critical approaches and latest library resources. Graduate students must take this course during first three resident semesters. (Offered Spring)

## 710 Chinese

**710:001. Elementary Chinese I - 5 hrs.**

For beginners. (Variable)

**710:002. Elementary Chinese II - 5 hrs.**

Continuation of 710:001. Prerequisite(s): 710:001 or consent of instructor. (Variable)

**710:011. Intermediate Chinese I - 5 hrs.**

Continuation of 710:002. Progressive development of writing, reading, and speaking skills through sequence of exercises relating to daily practical living. Grammatical refinement using numerous illustrations of more difficult new words in dialogues on everyday topics. Prerequisite(s): 710:002 or consent of instructor. (Variable)

## 720 French

**720:001. Introduction to French Language and Culture I - 3-4 hrs.**

Development of listening comprehension, speaking, reading and writing, and cultural literacy. Corequisite(s): 720:003. (Offered Fall and Spring)

**720:002. Introduction to French Language and Culture II - 3-4 hrs.**

Continuation of 720:001. Prerequisite(s): 720:001; 720:003; or equivalents. Corequisite(s): 720:004. (Offered Fall and Spring)

## 720 French

### **720:003. French Communication Practice I - 1-2 hrs.**

Practice (both live and computer-mediated) to reinforce and broaden the development of language and culture. Corequisite(s): 720:001. (Offered Fall and Spring)

### **720:004. French Communication Practice II - 1-2 hrs.**

Continuation of 720:003. Prerequisite(s): 720:001; 720:003; or equivalents. Corequisite(s): 720:002. (Offered Fall and Spring)

### **720:011. Intermediate French Language and Culture - 3-4 hrs.**

Thorough review of patterns of French; development of vocabulary and emphasis on listening comprehension, speaking, reading and writing, and cultural literacy. Prerequisite(s): 720:002; 720:004; or equivalents. Corequisite(s): 720:012. (Offered Fall)

### **720:012. Intermediate French Communication Practice - 1-2 hrs.**

Practice (both live and computer-mediated) to reinforce and broaden the development of language and culture. Prerequisite(s): 720:002; 720:004; or equivalents. Corequisite(s): 720:011. (Offered Fall)

### **720:031. Introduction to Francophone Literature in Translation - 3 hrs.**

Understanding and appreciating basic forms of Francophone literatures in English translation through close reading of literary texts. (Variable)

### **720:051. Composition - 2-3 hrs.**

Continuation of 720:011, leading to free composition. Prerequisite(s): 720:011 or equivalent. Corequisite(s): 720:061 or other intermediate course with consent of department head. (Offered Spring)

### **720:061. Conversation - 2-3 hrs.**

Continuation of 720:011, with wider range of subjects, vocabulary, and structures. Prerequisite(s): 720:011 or equivalent. Corequisite(s): 720:051 or other intermediate course with consent of department head. (Offered Spring)

### **720:100. Teaching French in the Elementary Schools - 1 hr.**

Techniques and practice in teaching French; includes weekly training experience in local schools plus class sessions. May be repeated twice. Prerequisite(s): consent of instructor. (Variable)

### **720:101(g). Advanced Composition - 3 hrs.**

Analysis of major morphological and syntactical structures of the French language, with contrasting grammatical and linguistic approaches to problems of correct usage. Emphasis on successful application of principles. May be repeated once with consent of instructor. Prerequisite(s): 720:051; junior standing. (Offered Fall)

### **720:102. French to English Translation - 3 hrs.**

Introduction to translation techniques involved in translation of French into English. Topics selected from varied magazines dealing with business, culture, and general information. Prerequisite(s): 720:051 or consent of instructor. (Variable)

### **720:103(g). Advanced Conversation - 3 hrs.**

Development and improvement of oral fluency through free and guided conversation. May be repeated once with consent of instructor. Prerequisite(s): 720:051; 720:061; or consent of instructor; junior standing. (Variable)

### **720:104. Introduction to French Literature - 3 hrs.**

Selected major works of representative French authors. Application of language skills to literary analysis and introduction to critical theories. Prerequisite(s): 720:101 or equivalent. (Offered Spring)

### **720:105(g). Stylistics - 3 hrs.**

Introduction to stylistic analysis. Development of style in composition through study of excerpts from contemporary French works and literary translation into French. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 720:101 or equivalent. (Variable)

### **720:107(g). Listening and Comprehension - 3 hrs.**

Development and improvement of ease with which one understands all types of standard speech including taped material, readings, radio and television broadcasts, and movies. Offered only on summer study tour. Prerequisite(s): junior standing. (Offered Summer)

### **720:108(g). Special Topics in Francophone Culture - 3 hrs.**

Aspects of Francophone history and culture. May be repeated on different topic. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)

### **720:111(g). Business French - 3 hrs.**

Introduction to current business concepts and practices in French-speaking countries. Reading and interpreting business information, and reading and writing basic business correspondence. Prerequisite(s): 720:101 or equivalent; junior standing. (Offered Odd Falls)

### **720:114(g). The World of French Business - 3 hrs.**

Study of various aspects of French culture relevant to the business world. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)

### **720:121(g). Special Topics in Language and Culture - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 720:101; 720:104; or equivalents; junior standing. (Variable)

### **720:122(g). Special Topics in French Literature - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 720:101; 720:104; or equivalents; junior standing. (Variable)

### **720:124(g). French Civilization - 3 hrs.**

Aspects of French history and culture up to the 19th Century. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)

### **720:125(g). Contemporary France - 3 hrs.**

Survey of recent developments in France: its people, customs and way of life, institutions, geography, economy, and art. May be repeated once through study abroad. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)

### **720:126(g). French Summer Symposium: (Topic) - 2-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 720:101 or equivalent; junior standing. (Offered Summer)

### **720:128(g). Special Topics in Francophone Literature - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 720:101 and 720:104 or equivalents; junior standing. (Variable)

### **720:144(g). Special Topics in French Cinema - 3 hrs.**

Study of French films. Various topics in the areas of history, culture, cinematic genres, directors and screen adaptations of literary works. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)

### **720:160(g). Advanced Oral Practice - 2-4 hrs.**

Development of oral fluency and greater accuracy through structured oral exercises; free conversation dealing with civilization and topics of current interest. Structural, morphological, and phonetic exercises designed to meet the needs of individual participants. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 720:101 or equivalent. (Variable)

### **720:161(g). Problems in French Pronunciation - 2 hrs.**

Correction of and practice in producing French sounds, intonation, rhythm, and stress to minimize foreign accent. Prerequisite(s): 720:051; 720:061; or equivalents; junior standing. (Variable)

### **720:181(g). Advanced Business French - 3 hrs.**

Study of current business concepts and practices in French-speaking countries through systematic analysis of business-related topics based on authentic reading materials and business communications. Prerequisite(s): 720:111 or consent of instructor; junior standing. (Offered Even Springs)

### **720:185(g). Introduction to Translation - 3 hrs.**

Introduction to journalistic and technical translation using varied textual materials (public media, scholarly, and professional texts), from English to French and French to English. May be repeated once. Prerequisite(s): 720:101 or equivalent; junior standing. (Variable)



**720:191. Practicum in Teaching French - 1-3 hrs.**

Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students in second language acquisition and foreign-language teacher education. Prerequisite(s): 720:101. Prerequisite(s) or corequisite(s): 700:190. (Offered Spring)

**720:201. Advanced Composition and Stylistics - 3 hrs.**

Study of stylistic devices; examination of principal morphological, syntactical, and semantic problems. (Variable)

**720:203. Structure of French - 3 hrs.**

Phonology, morphology, and syntax of current French, stressing areas of French structure which cause problems for native speakers of English. (Variable)

**720:207. Contemporary French Speech - 2 hrs.**

Understanding and identification of major levels of spoken French, including elegant, standard, and familiar speech styles; structural, lexical, and phonological study of current French speech, stressing areas of socio-linguistic importance. (Variable)

**720:225. Translation Strategies - 3 hrs.**

Study of translation theories and practical applications of translation techniques (including newer technologies) with a variety of texts drawn from daily life, literary, commercial, legal, and other professional sources. (Variable)

**720:226. French Graduate Summer Symposium: (Topic) - 2-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 720:101 or equivalent. (Offered Summer)

**720:270. French Literature in Review I - 3 hrs.**

Chronological review of major periods; works and writers of French literature from the Middle Ages through the Age of Enlightenment. Focus on development of each literary genre. Primarily for students planning to take M.A. comprehensives in French. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**720:271. French Literature in Review II - 3 hrs.**

Chronological review of major periods; works and writers of French literature from 19th century to present. Focus on development of each literary genre. Prerequisite(s): graduate standing or consent of instructor. (Variable)

**720:289. Seminar - 3 hrs.**

A range of critical and analytical approaches will be used to study various topics in the areas of literature and culture. May be repeated on different topic. (Variable)

**740 German****740:001. German Language and Culture I - 3 hrs.**

For beginners. Introduction to language and cultures of the German-speaking peoples. Not recommended for students who have had two or more years of German in high school or equivalent. Corequisite(s): 740:003. (Offered Fall and Spring)

**740:002. German Language and Culture II - 3 hrs.**

Continuation of 740:001 and 740:003. Not recommended for students who have had three or more years of German in high school or equivalent. Prerequisite(s): 740:001; 740:003; or equivalents. Corequisite(s): 740:004. (Offered Fall and Spring)

**740:003. German Communication Practice I - 2 hrs.**

Practice of basic language skills through guided exercises, including use of lab components. Not recommended for students who have had two or more years of German in high school or equivalent. Corequisite(s): 740:001. (Offered Fall and Spring)

**740:004. German Communication Practice II - 2 hrs.**

Continuation of 740:001 and 740:003. Not recommended for students who have had three or more years of German in high school or equivalent. Prerequisite(s): 740:001; 740:003; or equivalents. Corequisite(s): 740:002. (Offered Fall and Spring)

**740:011. German Language and Culture III - 3 hrs.**

Intermediate language course. Continued development of language skills. Review of essential German grammar. Discussion of cultural issues related to German-speaking countries. Prerequisite(s): 740:002; 740:004; or equivalents. (Offered Fall)

**740:012. German Communication Practice III - 2 hrs.**

Practice of language skills at intermediate level, including use of lab components. Prerequisite(s): 740:002; 740:004; or equivalents. (Offered Fall)

**740:013. German Language and Culture IV - 3 hrs.**

Continuation of 740:011 and 740:012. Intermediate language course. Continued development of language skills. Review and expansion of vocabulary and grammatical structures. Discussion of cultural issues related to German-speaking countries. Prerequisite(s): 740:011; 740:012; or equivalents. (Offered Spring)

**740:014. German Communication Practice IV - 2 hrs.**

Continuation of 740:011 and 740:012. Practice of language skills at intermediate level, including use of lab components. Prerequisite(s): 740:011; 740:012; or equivalents. (Offered Spring)

**740:031. Introduction to German Literature in Translation - 3 hrs.**

Understanding and appreciating basic terms of German language literatures in English translation through close reading of literary texts. (Variable)

**740:100. Teaching German in the Elementary Schools - 1 hr.**

Techniques and practice in teaching German at elementary school level. Students teach German in local schools for approximately one hour per week and meet with course instructor on regular basis. May be repeated twice. Prerequisite(s): consent of instructor. (Variable)

**740:101(g). German Writing Practice - 2-3 hrs.**

Development of writing skills and grammar review. Prerequisite(s): 740:013; 740:014; junior standing. (Variable)

**740:102(g). Advanced Composition and Grammar Review - 2-3 hrs.**

Improvement of writing skills through composition, in-class grammar review, and individual tutorial sessions. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 740:013; 740:014; or equivalents. (Variable)

**740:103(g). German Conversation - 2-3 hrs.**

Development of oral fluency through systematically-guided conversations on civilization topics and free conversation on topics of current interest. Structural, morphological, and phonetic exercises designed to meet needs of individual participant. Prerequisite(s): 740:013; 740:014; or equivalents; junior standing. (Variable)

**740:104(g). Introduction to German Literature - 3 hrs.**

Selected major works of representative German authors. Application of language skills to literary analysis and introduction to critical theories. Prerequisite(s): 740:013; 740:014; or equivalents; junior standing. (Variable)

**740:105(g). Advanced German Communication - 3 hrs.**

Further development of speaking, writing, reading, and listening skills through the study of German language media. Prerequisite(s): 740:101 or 740:103 or equivalents; junior standing. (Variable)

**740:111. Business German - 3 hrs.**

Introduction to current business concepts and practices in German-speaking countries. Reading and interpreting business information, and reading and writing basic business correspondence; accessing business news. Prerequisite(s): 740:011; 740:012; or consent of instructor. (Variable)

## 740 German/770 Russian

### **740:116(g). Modern Literature and Culture - 3 hrs.**

Introduction to literary and sociocultural developments in German-speaking communities from the turn of the Twentieth Century to the present. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 740:101 or equivalent. (Variable)

### **740:121(g). Special Topics in Language and Culture - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 740:101; 740:104; or equivalents; junior standing. (Variable)

### **740:122(g). Special Topics in Literature - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 740:101; 740:104; or equivalents; junior standing. (Variable)

### **740:123(g). Cultural History of German-speaking Countries - 3 hrs.**

Critical investigation into the relationships between language and historical and sociocultural development of German-speaking countries. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 740:101 or equivalent. (Variable)

### **740:126(g). German Summer Symposium: (Topic) - 2-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 740:101 or equivalent; junior standing. (Variable)

### **740:130. Folklore and Myths in German Literature - 3 hrs.**

Literary study of forms and functions of folklore and myths in German language literature. Forms, functions, and influences on culture over time. Prerequisite(s): 740:101 or 740:103. (Variable)

### **740:132. The German-American Experience - 3 hrs.**

Examination of major contributions of immigrants from German-speaking regions of Europe to cultural and civic developments in the U.S. from the Seventeenth Century to the present through the study of linguistic influences, literary and artistic expressions, and other authentic documents. (Variable)

### **740:134. German Literature and Cinema - 3 hrs.**

Study of cinematic adaptations of various literary works, and an introduction to major achievements in German cinematic history. Prerequisite(s): 740:101 or 740:103 or equivalents. (Variable)

### **740:136. Current Events in the German-Language Media - 3 hrs.**

Discussion and critical analysis of political, social, economic, and cultural developments and trends in contemporary German-speaking countries as reflected in a variety of media. Development of German language skills through listening, reading, speaking, and writing. Prerequisite(s): 740:101 or 740:103. (Variable)

### **740:148. The Holocaust in Literature and Film - 3 hrs.**

Examination of the different perspectives and developments of Jewish and non-Jewish voices in response to the Holocaust experience in literature and film within the context of the German-speaking cultures and beyond. Prerequisite(s): junior standing. (Same as CAP:148) (Variable)

### **740:150(g). Contemporary Germany and Austria - 3 hrs.**

In-depth analysis of political and social developments and cultural trends of post-war Germany and Austria. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 740:101 or equivalent. (Variable)

### **740:160(g). German Language: Its History and Current Trends - 3 hrs.**

Surveys developments and trends in the German language from its beginning to the present time. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 740:101 or equivalent. (Variable)

### **740:185(g). Introduction to Translation - 3 hrs.**

Introduction to journalistic and technical translation using varied textual materials (public media, scholarly, and professional texts), from English to German and German to English. May be repeated once. Prerequisite(s): 740:101 or equivalent; junior standing. (Variable)

### **740:191. Practicum in Teaching German - 1-4 hrs.**

Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students in second language acquisition and foreign-language teacher education programs. Prerequisite(s): 740:101. Prerequisite(s) or corequisite(s): 700:190. (Variable)

### **740:201. Academic Writing and Research Strategies in German - 3 hrs.**

Development of discipline-specific writing and research skills, including investigation into grammatical structures and stylistic problems in the study of German. (Variable)

### **740:225. Translation Strategies - 3 hrs.**

Study of translation theories applied to readings drawn from daily life, literature, business, legal, and other professional sources. Includes use of new technologies for translation. (Variable)

### **740:226. German Graduate Summer Symposium: (Topic) - 2-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 740:101 or equivalent. (Variable)

### **740:250. German Literature in Review - 3 hrs.**

Major periods of German literature, literary genres, and techniques. Primarily for students who plan to take the M.A. comprehensives in German. Prerequisite(s): consent of instructor. (Variable)

### **740:289. Seminar - 3 hrs.**

Critical investigation into special topics emphasizing cultural and literary issues within the discipline. (Variable)

## 770 Russian

### **770:001. Elementary Russian Language and Culture I - 3 hrs.**

Basic skills of listening comprehension, reading, speaking and writing. Introduction to Russian and Soviet culture. Corequisite(s): 770:003. (Offered Fall)

### **770:002. Elementary Russian Language and Culture II - 3 hrs.**

Continuation of 770:001. Prerequisite(s): 770:001; 770:003; or equivalents. Corequisite(s): 770:004. (Offered Spring)

### **770:003. Elementary Russian Practice I - 2 hrs.**

Practice of basic language skills through guided exercises and activities, including use of lab components. Corequisite(s): 770:001. (Offered Fall)

### **770:004. Elementary Russian Practice II - 2 hrs.**

Continuation of 770:003. Prerequisite(s): 770:001; 770:003. Corequisite(s): 770:002. (Offered Spring)

### **770:011. Intermediate Russian Language and Culture I - 3 hrs.**

Continued development of basic skills with further enlargement of vocabulary. Prerequisite(s): 770:002; 770:004; or equivalents. Corequisite(s): 770:013. (Offered Fall)

### **770:012. Intermediate Russian Language and Culture II - 3 hrs.**

Continues grammar study and emphasizes vocabulary building through readings and discussions. Prerequisite(s): 770:011; 770:013; or equivalents. Corequisite(s): 770:014. (Offered Spring)

### **770:013. Intermediate Russian Practice I - 2 hrs.**

Practice of Russian to enhance fluency, flexibility, and accuracy in all skills, including use of lab components. Prerequisite(s): 770:002; 770:004. Corequisite(s): 770:011. (Offered Fall)

### **770:014. Intermediate Russian Practice II - 2 hrs.**

Continuation of 770:013. Prerequisite(s): 770:011; 770:013. Corequisite(s): 770:012. (Offered Spring)

### **770:031. Introduction to Russian Literature in Translation - 3 hrs.**

Understanding and appreciating basic forms of Russian language literature in English translation through close reading of literary texts. (Variable)

**770:091. Bilingual Pre-Practicum - 1-6 hrs.**

For second- and third-level student. Enables student to reinforce basic language skills through direct participation. May be repeated for maximum of 6 hours. Only 3 hours can be applied to a minor in Russian. Prerequisite(s): consent of instructor. (Offered Fall and Spring)

**770:101(g). Advanced Russian Language and Culture I - 3 hrs.**

Completes grammar study and emphasizes vocabulary building through readings and discussion of expository prose. May be repeated once for undergraduate credit. Prerequisite(s): 770:012 or equivalent; junior standing. (Offered Fall)

**770:102(g). Introduction to Russian Literature I - 3 hrs.**

Introduction to history and development of Russian literature from Pushkin to Tolstoy and the critical reaction to it. In English. Prerequisite(s): junior standing. (Variable)

**770:103(g). Advanced Russian Language and Culture II - 3 hrs.**

Continuation of 770:101. May be repeated once for undergraduate credit. Prerequisite(s): 770:101 or equivalent; junior standing. (Offered Spring)

**770:104(g). Introduction to Russian Literature II - 3 hrs.**

Continuation of 770:102. Introduction to literature of the Silver Age, pre- and post-revolutionary periods, and post-Soviet period. In English. Prerequisite(s): junior standing. (Variable)

**770:121(g). Special Topics in Language and Culture - 2-3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 770:101. (Variable)

**770:122(g). Special Topics in Literature - 2-3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 770:101. (Variable)

**770:132(g). Nineteenth Century Russian Short Fiction - 3 hrs.**

Representative short fiction from Sentimentalism to Realism. Prerequisite(s): 770:103 or equivalent; junior standing. (Variable)

**770:134(g). Twentieth Century Russian Literature - 3 hrs.**

Selections from Russian Symbolism, pre- and post-revolutionary literature to present. Prerequisite(s): 770:103 or equivalent; junior standing. (Variable)

**770:141(g). Russian Culture and Civilization I - 3 hrs.**

Lectures and readings in Russian from the foundation of Kievan Rus through the mid-18th century. Additional readings in English supplemented by class discussions and oral and written reports in Russian. Prerequisite(s): 770:103; junior standing. (Variable)

**770:142(g). Russian Culture and Civilization II - 3 hrs.**

Continuation of 770:141. Lectures and readings from the mid-18th century to present. Prerequisite(s): 770:103 or equivalent; junior standing. (Variable)

**770:191. Practicum in Teaching Russian - 1-3 hrs.**

Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students enrolled in the foreign-language teacher education program. Prerequisite(s): 770:101. Corequisite(s): 700:190. (Variable)

**770:196. Senior Seminar - 3 hrs.**

Various themes/topics offered. Topic listed in Schedule of Classes. Prerequisite(s): 770:103. (Variable)

**780 Spanish****780:001. Elementary Spanish I - 5 hrs.**

For beginners. Not recommended for students who have had two or more years of Spanish in high school or the equivalent. (Offered Fall, Spring, and Summer)

**780:002. Elementary Spanish II - 5 hrs.**

Continuation of 780:001. Not recommended for students who have

had three or more years of Spanish in high school or the equivalent. Prerequisite(s): 780:001 or equivalent. (Offered Fall, Spring, and Summer)

**780:011. Intermediate Spanish - 5 hrs.**

Thorough review of essential Spanish grammar; enlarges vocabulary and augments the skills of listening, reading, writing, speaking, and cultural awareness. Prerequisite(s): 780:002 or equivalent. (Offered Fall and Spring)

**780:053. Spanish for Special Purposes: \_\_\_\_\_ - 2-3 hrs.**

Grammatical review and specialized vocabulary for practical professional situations; develops listening, reading, writing, and speaking skills; and provides a vehicle for cultural awareness. Prerequisite(s): 780:011 or equivalent. (Offered Fall and Spring)

**780:055. Oral and Written Spanish - 4 hrs.**

Development of communication skills, culturally, orally and in written form through selected readings, discussions, and exercises. Includes lab. Prerequisite(s): 780:011 or equivalent. (Offered Fall and Spring)

**780:100. Teaching Spanish in the Elementary School - 1 hr.**

Techniques and practice in teaching Spanish at the elementary school level; weekly teaching experience in local schools, plus class sessions. May be repeated once. Prerequisite(s) or corequisite(s): 780:055 and consent of instructor. (Offered Fall)

**780:101. Advanced Writing - 3 hrs.**

Analysis and practice in Spanish grammar and usage through writing and reading a variety of texts with attention to vocabulary enhancement and different communication strategies. Prerequisite(s): 780:055 or equivalent. (Offered Fall and Spring)

**780:102(g). Advanced Spanish for Special Purposes - 2-3 hrs.**

Enhance speaking, writing, and cultural skills for particular professional or occupational situations. Prerequisite(s): 780:053 or 780:055 or equivalent; junior standing. (Variable)

**780:103. Advanced Conversation and Reading - 3 hrs.**

Further development of oral fluency. Conversation on current issues. Extensive vocabulary enhancement through readings and multimedia materials. Prerequisite(s): 780:055 or equivalent. (Variable)

**780:104. Introduction to Hispanic Literature - 3 hrs.**

Selected major works of representative Hispanic authors. Application of language skills to literary analysis and introduction to critical theories. Recommended for non-teaching majors. Prerequisite(s): 780:101 or 780:150 or equivalent. (Offered Fall and Spring)

**780:105. Literary Miniatures - 2-3 hrs.**

Introduction to analysis of short literary forms with application to pedagogy of literature. Recommended for teaching majors. Prerequisite(s): 780:101 or 780:150 or equivalent. (Variable)

**780:107. Introduction to Translation - 2-3 hrs.**

Basic considerations regarding theoretical and applied translation and role of contrastive grammar in translation. Prerequisite(s): 780:101 or 780:150 or equivalent. (Offered Fall and Spring)

**780:108(g). Introduction to Spanish Linguistics - 2-3 hrs.**

Survey of the basic concepts of modern linguistics, as illustrated through Spanish phonology, morphology, syntax, and semantics. Prerequisite(s): 780:101 or 780:150 or equivalent; junior standing. (Offered Fall and Spring)

**780:112. Survey of Spanish American Literature - 3 hrs.**

Overview of Spanish American literature through works of representative authors of different periods and genres. Prerequisite(s): 780:104 or 780:105 or equivalent. (Offered Spring)

**780:118. Survey of Spanish Literature - 3 hrs.**

Overview of Spanish literature through works of representative authors of different periods and genres. Prerequisite(s): 780:104 or 780:105 or equivalent. (Offered Fall)

## 780 Spanish

### **780:120. Latin American Culture and Civilization - 3 hrs.**

Culture of Latin America as shaped by its geography, history, and pre-history; and as revealed in its arts, sports, customs, traditions, and economic, social, and political institutions. Prerequisite(s): 780:101 or 780:150 or equivalent. (Variable)

### **780:123. Spanish Culture and Civilization - 3 hrs.**

Spanish cultural heritage as shaped by geography and history, and as revealed in its arts, sports, customs, traditions, and economic, educational, social, and political institutions. Prerequisite(s): 780:101 or 780:150 or equivalent. (Variable)

### **780:127. Latinos in the United States - 3 hrs.**

Major issues confronting Latinos living in the U.S.: history, immigration, economics, literary, and cinematographic representation. Prerequisite(s): 780:101 or 780:150 or equivalent. (Variable)

### **780:131. Topics in Spanish American Literature: \_\_\_\_\_ - 3 hrs.**

Movements, themes, and authors in Spanish American narrative, poetry, essay, and drama; based on historical and aesthetic trends. Topic listed in Schedule of Classes. Prerequisite(s): 780:112 or 780:118. (Offered Spring)

### **780:135. Topics in Spanish Literature: \_\_\_\_\_ - 3 hrs.**

Movements, themes, and authors in Spanish narrative, poetry, essay, and drama; based on historical periods and aesthetic trends. Topic listed in Schedule of Classes. Prerequisite(s): 780:112 or 780:118. (Offered Fall)

### **780:141(g). Hispanic Cultures: Film and Multimedia - 3 hrs.**

Development of language, cultural and critical skills through Spanish language media (e.g., print, radio, television, film, and computer-based communications). Prerequisite(s): 780:101 or 780:150 or equivalent; junior standing. (Variable)

### **780:143(g). Pronunciation and Oral Proficiency - 2-3 hrs.**

Practice in pronunciation with focus on oral proficiency. Prerequisite(s): 780:108 or equivalent; junior standing. (Variable)

### **780:145(g). Translation - 2-3 hrs.**

Journalistic and technical translation using varied textual materials (public media, scholarly, and professional texts), from English to Spanish and Spanish to English. May be repeated once. Prerequisite(s): 780:107 or equivalent; junior standing. (Variable)

### **780:146(g). Topics in Language and Culture: \_\_\_\_\_ - 3 hrs.**

Special topics and aspects of the discipline. May be repeated on different topic. Prerequisite(s): 780:101 or 780:150; junior standing. (Variable)

### **780:147(g). Structure of Spanish - 2-3 hrs.**

Study of Spanish syntax using current linguistic theories. Prerequisite(s): 780:108 or equivalent; junior standing. (Variable)

### **780:150(g). Written Communication - 3 hrs.**

Topics taken from daily life; compositions written and corrected in the classroom; grammar review, and Spanish letter writing. Offered only in conjunction with the Spanish institutes abroad. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **780:151(g). Advanced Oral Communication - 3 hrs.**

Topics of Spanish daily life; emphasis on idioms typical of that linguistic community. Offered only in conjunction with the Spanish institutes abroad. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **780:152(g). Contemporary Hispanic Culture - 3-5 hrs.**

Contemporary Hispanic culture as it reflects and relates to its history and pre-history and current environment; emphasis on literature, architecture, painting, sculpture, and folk music. Offered only in conjunction with the Spanish institutes abroad. May be repeated for maximum of 5 hours. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

### **780:162(g). Spanish American Literature: \_\_\_\_\_ - 2-3 hrs.**

Study of Spanish American literature by genre, period, theme, or author. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:112 or 780:118 or equivalent; junior standing. (Variable)

### **780:163(g). Peninsular Literature: \_\_\_\_\_ - 2-3 hrs.**

Study of Peninsular literature by genre, period, theme, or author. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:112 or 780:118 or equivalent; junior standing. (Variable)

### **780:164(g). Hispanic Literature: \_\_\_\_\_ - 2-3 hrs.**

Combined study of Peninsular Spanish and Spanish American literature by genre, period, theme, or author. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:112 or 780:118 or equivalent; junior standing. (Variable)

### **780:166(g). Topics in Literature and Culture: \_\_\_\_\_ - 2-3 hrs.**

Perspectives on interrelationship of Spanish and/or Spanish American and/or U.S. Latino/Chicano literature and culture, based on historical periods, movements, themes, genres and authors. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:112 or 780:118 or equivalent; junior standing. (Variable)

### **780:184(g). Spanish Summer Symposium: (Topic) - 1-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:101 or equivalent; junior standing. (Offered Summer)

### **780:191. Practicum in Teaching Spanish - 1-4 hrs.**

Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students in second language acquisition and foreign-language teacher education. Prerequisite(s): 780:101. Corequisite(s): 700:190. (Offered Spring)

### **780:201. Literature and Critical Theory - 2-3 hrs.**

Critical theory application to the study of literature of Spanish-speaking peoples, literary genres, and techniques, using intensive readings, lectures, and student reports. Primarily for students planning to take the M.A. comprehensives in Spanish. (Variable)

### **780:221. Hispanic Culture and Literature: \_\_\_\_\_ - 2-3 hrs.**

Investigation into Hispanic cultures and civilizations as a product of their history and current environment. May be repeated twice on different topic. (Variable)

### **780:231. Cervantes - 3 hrs.**

Intensive study of *Don Quijote*. (Variable)

### **780:235. Golden Age Literature - 2-3 hrs.**

Outstanding literary works of the Renaissance and Baroque eras. (Variable)

### **780:240. Analysis of Spanish - 2-3 hrs.**

Advanced study of current syntactic theories applied to topics relevant to Spanish. Prerequisite(s): 780:108 or consent of instructor. (Variable)

### **780:241. Old Spanish - 2-3 hrs.**

Literary and linguistic study of selected early works. Prerequisite(s): 780:108 or consent of instructor (Variable)

### **780:245. Translation Techniques - 2-3 hrs.**

Strategies of translation with journalistic and technical emphases. Prerequisite(s): 780:145 or equivalent translation skills. (Variable)

### **780:252. Topics in Language and Culture: \_\_\_\_\_ - 1-3 hrs.**

Study of linguistic, geographic, socioeconomic, historico-political aspects of contemporary Hispanic societies, as reflected in art, folklore, and culture. May be repeated on different topic. Offered only in conjunction with the Spanish institutes abroad. (Variable)

### **780:260. Spanish American Literature: \_\_\_\_\_ - 2-3 hrs.**

Study of Spanish American literature by genre, period, theme, and/or author. May be repeated on different topic. (Variable)

### **780:261. Spanish Literature: \_\_\_\_\_ - 2-3 hrs.**

Study of Spanish literature by period, theme, and/or author. May be repeated on different topic. (Variable)

**780:262. Comparative Hispanic Literatures:** \_\_\_\_\_ - 3 hrs.

Comparative analysis of Spanish and Spanish American literature thematically, structurally, and/or stylistically. (Variable)

**780:284. Spanish Graduate Summer Symposium: (Topic) - 1-6 hrs.**

Intensive summer course designed to complement courses offered during the fall and spring semesters. Topic listed in Schedule of Classes. May be repeated on different topic. Prerequisite(s): 780:101 or equivalent. (Offered Summer)

**780:289. Seminar:** \_\_\_\_\_ - 2-3 hrs.

Various topics offered in areas of literature, culture, and language. Topic listed in Schedule of Classes. May be repeated on different topic. (Variable)

**790 Portuguese****790:001. Basic Portuguese Language and Culture - 3 hrs.**

Essential language and cultural forms. Corequisite(s): 790:010 (Offered Fall and Spring)

**790:002. Intermediate Portuguese Studies - 3 hrs.**

Communication skills for routine situations. Prerequisite(s): 790:001 Corequisite(s): 790:020 (Offered Spring)

**790:010. Portuguese Practice - 2 hrs.**

Practice of basic language skills and cultural literacy with live and electronic tutors. Corequisite(s): 790:001 (Offered Fall and Spring)

**790:020. Portuguese Laboratory - 2 hrs.**

Establishing situational language skills with live and electronic tutors. Prerequisite(s): 790:001; 790:010 Corequisite(s): 790:002 (Offered Spring)

**790:031. Introduction to Portuguese and Hispanic Literatures in Translation - 3 hrs.**

Understanding and appreciating basic forms of Portuguese and Spanish language literatures in English translation through close reading of literary texts. May count toward Portuguese minor and dual major. (Variable)

**790:060. Portuguese Language and Culture Studio - 2-4 hrs.**

Authentic and creative language skills, cultural communications, and clinicals with live and electronic tutors. Prerequisite(s): 790:002, 790:020, or consent of instructor. (Variable)

**790:101(g). Advanced Portuguese Communications - 3 hrs.**

Sharpen skills in various communications strategies, using authentic materials in writing, reading, speaking, and comprehension. May be repeated once with consent of instructor. Undergraduates earn 3 credits; graduates earn 2 credits. Prerequisite(s): 790:060 or consent of instructor; junior standing (Variable)

**790:109. Bilingual Experiential Learning - 1-4 hrs.**

For second-level students and higher. Experiential learning by applying language skills in educational and professional settings. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor (Offered Fall and Spring)

**790:123(g). Multimedia Studies in Culture - 2-3 hrs.**

Multimedia study of culture, history, and geography of Portuguese-speaking world. May be repeated once on different topic. Prerequisite(s): junior standing. Prerequisite(s) for majors and minors: 790:101 or consent of instructor. Prerequisite(s) for non-majors and non-minors: consent of instructor (Variable)

**790:180(g). Topics in \_\_\_\_\_ - 3 hrs.**

Advanced study of various topics in language, cultures and literatures of Portuguese-speaking world. May be repeated on different topic. Prerequisite(s): 790:101 or equivalent; junior standing (Variable)

**790:191. Bilingual Practicum - 1-4 hrs.**

Participants meet on regular basis with instructor to acquire first-hand knowledge of foreign language methodologies through activities and class observations. Required for students enrolled in foreign-language teacher education program. Prerequisite(s): 790:060 or consent of instructor Prerequisite(s) or corequisite(s): 700:190 (Variable)

**800 Mathematics**

**TO MEET ANY COURSE PREREQUISITE, GRADE OF C- OR HIGHER IS REQUIRED IN THE PREREQUISITE COURSE.**

**800:004. Intermediate Algebra - 3 hrs.**

Fundamental mathematical concepts; functions and graphs; solutions of equations; systems of equations and inequalities; matrices and determinants. Successful completion will satisfy the university's high school mathematics requirement. Does not count toward minimum hours required for baccalaureate degree. (Offered Fall and Spring)

**800:023. Mathematics in Decision Making - 3 hrs.**

Selection of mathematical topics and their applications with an emphasis on mathematical reasoning. Topics include probability and statistics. (Offered Fall, Spring, and Summer)

**800:031. Mathematical Reasoning for Teaching I - 3 hrs.**

Mathematics as problem solving, communications, connections, and reasoning. Includes rational numbers, data and statistical reasoning, probabilistic reasoning. Activities investigating these topics connect to elementary school mathematics. Primarily for education majors.

**800:037. Technology for Elementary School Mathematics Teachers - 3 hrs.**

Survey of technologies used to develop mathematical thinking in elementary grades. Technologies addressed include calculators, LOGO, spreadsheets, Geometer's Sketchpad, other educational software, and the Internet. (Offered Fall and Spring)

**800:043. Analysis for Business Students - 3 hrs.**

Analysis and interpretation of data using numerical, graphical, and functional viewpoints; linear and exponential functions; modeling data using functions. No credit for students with credit in 800:046 or 800:056. (Offered Fall and Spring)

**800:044. Trigonometry - 2 hrs.**

Trigonometric functions, solution of triangles and applications of simple harmonic motions, polar coordinates, and vectors. No credit for students with credit in 800:046. (Offered Fall and Spring)

**800:046. Precalculus - 4 hrs.**

Pre-calculus mathematics; equations and inequalities; logarithms, exponential and circular functions; analytic trigonometry, analytic geometry, mathematical induction; applications. Credit reduced to 1 hour for students with credit in 800:043 or 800:056, and to 2 hours for students with credit in 800:044. (Offered Fall and Spring)

**800:048. Calculus for Technology - 4 hrs.**

Survey of analytic geometry and elementary calculus with emphasis on applications. May not be applied to Mathematics major or minor. Prerequisite(s): 800:046 or consent of instructor. (Offered Spring)

**800:056. Mathematics for Biological Sciences - 3 hrs.**

Proportional reasoning, linear functions and linear regression, exponential functions, and logarithmic functions with scientific applications. No credit for students with credit in 800:043 or 800:046. (Offered Fall and Spring)

**800:060. Calculus I - 4 hrs.**

The derivatives and integrals of elementary functions and their applications. Prerequisite(s): 800:046, or 800:043 and 800:044, or equivalent. (Offered Fall and Spring)

**800:061. Calculus II - 4 hrs.**

Continuation of 800:060. Prerequisite(s): C- or better in 800:060. (Offered Fall and Spring)

**800:062. Calculus III - 4 hrs.**

Continuation of 800:061. Prerequisite(s): C- or better in 800:061. (Offered Fall and Spring)

**800:064. Introductory Statistics for Life Sciences - 3 hrs.**

Descriptive statistics, basic probability concepts, confidence intervals, hypothesis testing, correlation and regression, elementary concepts of sur-

## 800 Mathematics

vival analysis. No credit for students with credit in 800:072. (Offered Fall and Spring)

### **800:072. Introduction to Statistical Methods - 3 hrs.**

Descriptive statistics including correlation and curve fitting. Intuitive treatment of probability and inferential statistics including estimations and hypothesis testing. No credit for students with credit in 800:064. Students with credit in 800:172 should not enroll in 800:072. (Offered Fall, Spring, and Summer)

### **800:074. Discrete Mathematics - 3 hrs.**

Introduction to mathematical reasoning, sets, relations, and functions with applications in computer science. Prerequisite(s): 800:060; 810:030 or equivalent. (Variable)

### **800:076. Linear Algebra for Applications - 3 hrs.**

Gaussian elimination; matrix algebra; vector spaces, kernels, and other subspaces; orthogonal projection; eigenvalues and eigenvectors. Prerequisite(s): 800:060. (Offered Fall and Spring)

### **800:080. Mathematics of Finance - 3 hrs.**

Measurement of interest and discount, annuities, yield rates, amortization and sinking funds, bonds and stocks, introduction to financial derivatives and advanced financial analysis. Prerequisite(s): 800:060. (Offered Spring)

### **800:090. Mathematical Problem Solving - 1 hr.**

Basic techniques used to solve challenging mathematics problems. Problems considered will come from a broad range of courses. Prepares students to take the William Lowell Putnam Examination and the Iowa Collegiate Mathematics Competition. May be repeated. (Offered Fall and Spring)

### **800:092. Introduction to Mathematical Modeling - 3 hrs.**

Components of mathematical modeling. Formulation, interpretation, and testing of models. Prerequisite(s): four years of college preparatory mathematics, or 800:046, or 800:043 and 800:044. (Variable)

### **800:096. Technology and Programming for Secondary Mathematics Teachers - 3 hrs.**

Introduction to technologies used in grades 5-12 mathematics classrooms. Technologies include LOGO, spreadsheets, Geometer's Sketchpad and graphing calculators. Prerequisite(s) or corequisite(s): 800:060. (Offered Fall)

### **800:111(g). Introduction to Algebraic Thinking for Elementary Teachers - 4 hrs.**

Investigation of problems involving patterns, variables, relations, functions, and their graphs. Exploration and representation of these problems using physical models and technology. Prerequisite(s): 800:031; junior standing. (Offered Fall and Spring)

### **800:112(g). Introduction to Geometry and Measurement for Elementary Teachers - 3 hrs.**

Van Hiele levels of thinking. Investigation of two- and three-dimensional concepts, rigid transformations, symmetry, and spatial sense. Prerequisite(s): 800:031; 800:037; 800:131; junior standing. (Offered Fall and Spring)

### **800:113(g). Topics in Mathematics for Grades K-8 - 3 hrs.**

Investigation of number theory, extending ratio, proportion and probability with connections to rational numbers, algebra and geometry. Reasoning about topics in the context of the K-8 mathematics curriculum. Prerequisite(s): 800:031; 800:037; 800:131; junior standing. (Offered Fall and Spring)

### **800:114(g). Problem Solving in Mathematics for Elementary Teachers - 4 hrs.**

Strategies for constructing and communicating a mathematics problem-solving process. Analysis of resources and strategies to generate mathematics tasks and to create an effective problem-solving environment. Problem solving as a means of constructing mathematics knowledge.

Prerequisite(s): 800:134; at least one of 800:111, 800:112, 800:113; junior standing. (Offered Fall and Spring)

### **800:121(g). Applied Statistical Methods for Research - 3 hrs.**

Inference about two or more population variances, multiple comparisons, categorical data analysis, linear and logistic regression, design of experiments, analysis of variance and covariance, repeated measures and random effects. Prerequisite(s): 800:072; junior standing. (Offered Fall and Spring)

### **800:122(g). Statistical Computing - 3 hrs.**

Use of statistical software such as SAS, SPSS, S-Plus, Minitab. Data management, graphical techniques and data analysis, computer-intensive statistical methods. Prerequisite(s): 800:072; junior standing. (Variable)

### **800:123(g). Design and Analysis of Experiments - 3 hrs.**

Planning and organizing experiments, one-factor experiments, randomized blocks, Latin squares and related designs, factorial designs and fractional factorial designs, response surface methodology, nested and split-plot designs. Prerequisite(s): 800:121 or consent of instructor; junior standing. (Variable)

### **800:124(g). Modeling for Industrial Mathematics - 3 hrs.**

Mathematical models arising in industrial applications and some of the techniques used to analyze them, taken from areas such as statistics, transform theory, differential equations and numerical analysis. Emphasis on writing and presentation skills. Prerequisite(s): junior standing. (Variable)

### **800:125(g). Geometric Modeling for CAD - 3 hrs.**

B-spline curves and surfaces, Bezier curves and surfaces, NURBS, curve and surface design, multi-resolution methods, subdivision/refinement methods, scattered data fitting, mesh generation, solid representation, solid modeling. Prerequisite(s): 800:062; 800:076; junior standing. (Variable)

### **800:126(g). Operations Research Models - 3 hrs.**

Overview of optimization models, transportation and assignment problems, network analysis, inventory theory, decision theory, queuing theory, dynamic programming. Prerequisite(s): 800:152; junior standing. (Variable)

### **800:131. Mathematical Reasoning for Teaching II - 3 hrs.**

Mathematics as problem solving, communications, connections, and reasoning. Includes geometry, measurement, proportional reasoning, percent. Activities connected to elementary school mathematics. Designed for elementary education majors. Prerequisite(s): 800:031; UNI and cumulative GPA of 2.50 or better. (Offered Fall and Spring)

### **800:134. Teaching Mathematics in the Elementary School - 3 hrs.**

Effective instructional models and strategies for teaching elementary school mathematics; involves selecting and designing mathematical tasks, creating an environment, and orchestrating discourse. Using and supplementing mathematics materials within a sound psychological framework for making instructional decisions. Prerequisite(s): 800:131; UNI and cumulative GPA of 2.50 or better; full admission to teacher education is required. (Offered Fall, Spring, and Summer)

### **800:137. Action Research for Elementary School Mathematics Teachers - 1 hr.**

Planning, conducting assessments, providing instruction, and evaluating instructional effectiveness for selected mathematics topics in the elementary curriculum. Prerequisite(s): 800:134 or 800:190. (Variable)

### **800:140(g). Intermediate Mathematical Analysis I - 3 hrs.**

Algebraic and topological structure of the reals; limits and continuity; theory of differentiability of functions of a single real variable. Prerequisite(s): 800:062; 800:076; junior standing. (Offered Fall)

### **800:141(g). Intermediate Mathematical Analysis II - 3 hrs.**

Riemann integration; sequences and series of functions; introduction to Lebesgue integration. Prerequisite(s): 800:140; junior standing. (Offered Spring)

**800:142(g). Dynamical Systems: Chaos Theory and Fractals - 3 hrs.**

Historical background, including examples of dynamical systems; orbits, fixed points, and periodic points; one-dimensional and two-dimensional chaos; fractals: Julia sets, the Mandelbrot set, and fractal dimension; computer programs and dynamical systems. Prerequisite(s): 800:061; 800:076; junior standing. (Variable)

**800:143(g). Combinatorics - 3 hrs.**

Various ways to enumerate elements of a set and graph theory. Appropriate for mathematics, mathematics education, computer science, and actuarial science students. Prerequisite(s): 800:060 or 810:080; junior standing. (Offered Fall and Spring)

**800:144(g). Elementary Number Theory - 3 hrs.**

Topics from properties of integers, prime numbers, congruences, cryptography, Pythagorean triples, Diophantine equations, Fermat's last theorem, Fibonacci numbers, and the golden rectangle. Also, number theoretic connections to abstract algebra. Prerequisite(s): 800:160; junior standing. (Offered Odd Falls and Spring)

**800:146. Actuarial Examination Preparation - 1-3 hrs.**

Strengthening student skills solving computational problems similar to those included on actuarial examinations. Analyzing and practicing appropriate choice of problem solving techniques and strategies. May be repeated for credit for preparation for different examinations. (Offered Fall and Spring)

**800:149(g). Differential Equations - 3 hrs.**

Elementary theory and applications of first order differential equations; introduction to numerical techniques of solving differential equations; solutions of  $n$ th order linear differential equations with constant coefficients. Prerequisite(s): 800:062; 800:076; junior standing. (Offered Fall)

**800:150(g). Partial Differential Equations - 3 hrs.**

Study of applied partial differential equations using heat, wave, and potential equations as basis; Fourier series and integrals; Laplace transformations. Prerequisite(s): 800:149; junior standing. (Offered Even Springs)

**800:152(g). Introduction to Probability - 3 hrs.**

Axioms of probability, sample spaces having equally likely outcomes, conditional probability and independence, random variables, expectation, moment generating functions, jointly distributed random variables, weak law of large numbers, central limit theorem. Prerequisite(s): 800:061; junior standing. (Offered Fall and Spring)

**800:153(g). Actuarial Mathematics - 3 hrs.**

Survival distributions and life tables, life insurance, life annuities, benefit premiums. Prerequisite(s): 800:080; 800:152; junior standing. (Offered Even Falls)

**800:154(g). Introduction to Stochastic Processes - 3 hrs.**

Markov chains, Poisson processes, continuous time Markov chains, renewal processes, Brownian motion and stationary processes. Prerequisite(s): 800:152; junior standing. (Offered Fall)

**800:155(g). Differential Geometry - 3 hrs.**

Analytic study of curves and surfaces in three-dimensional Euclidean space. Prerequisite(s): 800:062; 800:076; junior standing. (Offered Odd Springs)

**800:156(g). Introduction to Complex Analysis - 3 hrs.**

Differentiation and integration of functions of a single complex variable; Taylor and Laurent expansions; conformal mapping. Prerequisite(s): 800:062; junior standing. (Offered Even Springs)

**800:157(g). Statistical Quality Assurance Methods - 3 hrs.**

Exploratory data analysis, Shewhart control charts and their variations, process capability analysis, CUSUM charts, EWMA charts, sampling inspection by attributes and by variables, continuous sampling plans, application of design of experiments in quality engineering. Prerequisite(s): 800:152 or consent of instructor; junior standing. (Variable)

**800:158(g). Topics in Actuarial Science - 3 hrs.**

Topics from mathematics of life contingencies, risk theory, survival

analysis, construction of actuarial tables, demography, gradation. May be repeated on different topic with consent of instructor. Prerequisite(s): 800:152; junior standing; consent of instructor. (Offered Spring)

**800:160(g). Modern Algebra I - 3 hrs.**

Introduction to study of algebraic systems. Groups, rings, fields, homomorphisms and isomorphisms. Prerequisite(s): 800:061 or equivalent; 800:076; junior standing. (Offered Fall and Spring)

**800:161(g). Linear Algebra I - 3 hrs.**

Vector spaces, linear transformations, determinants, eigenvalues and eigenvectors, canonical forms, inner product spaces. Prerequisite(s): 800:160; junior standing. (Variable)

**800:162(g). Modern Algebra II - 3 hrs.**

Basic properties of rings, integral domains and fields. Polynomials over fields, field extensions, straightedge and compass constructions. Prerequisite(s): 800:160; junior standing. (Offered Spring)

**800:164(g). Statistical Methods in Bioinformatics - 3 hrs.**

Analysis of a DNA sequence, analysis of multiple DNA and protein sequences, BLAST. Prerequisite(s): 800:064; 800:152; junior standing. (Variable)

**800:165(g). Introduction to Modern Geometries - 3 hrs.**

Euclid's postulates serve as a model for studying various axiomatic systems defining incidence geometries. Geometries include finite geometries, plane geometry, neutral geometry, taxicab geometry, spherical geometry, and hyperbolic geometry. Prerequisite(s): 800:060 or equivalent; junior standing. (Offered Spring)

**800:166(g). Advanced Euclidean Geometry - 3 hrs.**

Topics of plane geometry beyond a first course; compass and straightedge constructions, the nine-point circle, Ceva's and Menelaus' theorems, triangle centers, conics, and tessellations. Prerequisite(s): 800:060 or equivalent; junior standing. (Offered Fall)

**800:167(g). Topology I - 3 hrs.**

Introductory study of metric spaces, completeness, topological spaces, continuous functions, compactness, connectedness, separability, product, and quotient spaces. Prerequisite(s): 800:062; 800:076; junior standing. (Offered Even Falls)

**800:168(g). Topology II - 3 hrs.**

Continuation of 800:167. Two- and  $n$ -dimensional manifolds, orientable manifolds, the fundamental group of a space, free groups, covering spaces, application to geometry and knot theory. Prerequisite(s): 800:160; 800:167; junior standing. (Variable)

**800:169(g). Mathematical Logic - 3 hrs.**

Introduction to semantics and syntax of propositional and predicate calculus; applications to electrical networks and analysis of formal mathematical theories. Prerequisite(s): 800:060; junior standing. (Variable)

**800:170(g). Loss Models - 3 hrs.**

Applied probability methods used in modeling loss. Loss distributions, aggregate loss models, credibility theory and long term models. Prerequisite(s): 800:152; 800:174; junior standing. (Offered Odd Falls)

**800:171(g). Spatial Data Analysis - 3 hrs.**

Analysis and interpretation of spatial point processes, area, geostatistical and spatial interaction data. Applications to geographic data in real estate, biology, environmental, and agricultural sciences using S-Plus software. Prerequisite(s): 800:072 or 980:080; junior standing. (Same as 970:160g) (Offered Odd Springs)

**800:172(g). Statistical Methods - 3 hrs.**

Descriptive statistics including graphical representation, central tendency and variation, correlation and regression; elementary probability; problems of estimation and hypothesis testing from an intuitive approach; use of statistical packages such as SAS or SPSS. Students with credit in 800:072 or 800:174 may not enroll in 800:172. Prerequisite(s): junior standing. (Variable)

## 800 Mathematics

### **800:173. Probability and Statistics - 3 hrs.**

Descriptive statistics and graphical representations, basic concepts of probability and distributions, random variables, expectations, sampling theory, tests of statistical significance. Calculus is employed in developing and applying these ideas. Specific attention devoted to the use of technology in motivating and explaining concepts and techniques. Emphasis on applications appropriate for secondary school probability/statistics courses. No credit with credit in 800:172. Prerequisite(s): 800:061. (Offered Fall and Even Springs)

### **800:174(g). Introduction to Mathematical Statistics - 3 hrs.**

Sampling distribution theory, point and interval estimation, Bayesian estimation, statistical hypotheses including likelihood ratio tests and chi-square tests, selected nonparametric methods. Prerequisite(s): 800:062; 800:152; junior standing. (Offered Spring)

### **800:175(g). Regression Analysis - 3 hrs.**

Regression analysis, analysis of variance, time series methods. Prerequisite(s): 800:174; junior standing. (Offered Fall)

### **800:176(g). Numerical Analysis I - 3 hrs.**

Theory and application of standard numerical techniques dealing with nonlinear equations, systems of linear equations, interpolation and approximation, numerical differentiation and integration. Prerequisite(s): 800:061; 800:076; 810:034 or 810:035 or 810:036, or equivalent; junior standing. (Offered Odd Falls)

### **800:177(g). Linear and Non-Linear Programming - 3 hrs.**

Linear, non-linear, integer, and dynamic programming. Prerequisite(s): 800:061; 800:076; 810:034 or 810:035 or equivalent; junior standing. (Variable)

### **800:178(g). Numerical Analysis II - 3 hrs.**

Theory and application of numerical techniques for solution of ordinary and partial differential equations. Advanced topics from interpolation, approximation, numerical linear algebra. Prerequisite(s): 800:176; junior standing. (Variable)

### **800:180(g). History of Mathematics: To the Calculus - 3 hrs.**

Survey of mathematical activities of humankind in numeration and number systems, algebra, and number theory, from pre-history through the present day. Motives, influences, and methods affecting development of these mathematical topics in Mesopotamian, Egyptian, Greek, Islamic, Indian, Chinese, Native American, and Western civilizations. Ethnomathematics as related to these topics. Prerequisite(s): junior standing. (Offered Fall)

### **800:181(g). Philosophy of Mathematics - 3 hrs.**

Consideration of views on foundations of mathematics and such topics as role and possible limitations of mathematics in scientific investigation; significance of logical constructs in mathematics. Prerequisite(s): Humanities course; one semester of calculus; at least one additional mathematics course; junior standing. (Variable)

### **800:182(g). Introduction to Set Theory - 3 hrs.**

Overview of Cantor's set theory. Informal introduction to the axioms of set theory; general relations and functions; order relations; the axiom of choice, Zorn's lemma, and well-ordering; ordinal and cardinal numbers and their arithmetics; the Cantor-Schroeder-Bernstein theorem. Prerequisite(s): 800:160 or 800:165 or 800:169; junior standing. (Variable)

### **800:183. Connections: University Mathematics and the Secondary Curriculum - 3 hrs.**

Connections between the undergraduate mathematics major and the secondary mathematics curriculum. Consideration of modern algebra, modern geometry, probability and statistics, calculus and number theory in the context of the secondary mathematics curriculum. Prerequisite(s): 6 hours of 100-level courses in mathematics. Corequisite(s): 200:148; 250:150. Prerequisite(s) or corequisite(s): 200:017; 200:030; 200:128; 800:188. (Variable)

### **800:185(g). History of Mathematics: From the Calculus - 3 hrs.**

Survey of mathematical activities of humankind in calculus, from ancient civilizations to the present day. Post-calculus topics selected from analysis, set theory, geometry and topology, mathematical logic, and other integrative developments in Twentieth Century mathematics. Ethnomathematics as related to these topics. Prerequisite(s): 800:061; junior standing. (Variable)

### **800:187(g). Formal Languages - 3 hrs.**

Brief comparison of natural languages and formal languages. Grammars and their generated languages; the Chomsky hierarchy and corresponding automata theories; operations on languages; some solvable and unsolvable problems. Prerequisite(s): 810:181; junior standing. (Variable)

### **800:188. The Teaching of Middle School/Junior High Mathematics - 3 hrs.**

Teaching strategies for grades 5-8; roles of content and methods; participation in a middle school/junior high teaching situation. Prerequisite(s): 200:128; 200:148; 6 hours of 100-level courses in mathematics. (Offered Fall)

### **800:189(g). Geometric Transformations - 3 hrs.**

Isometries of the plane in context of Klein's definition of a geometry as a group acting on a set of points. Rotations, reflections, and translations are used to study congruence, similarity, and symmetry and to solve problems that would otherwise be difficult using analytic geometry and calculus. Prerequisite(s): 800:076; 800:165 or 800:166; junior standing. (Offered Fall)

### **800:190. The Teaching of Secondary Mathematics - 3 hrs.**

Teaching strategies for grades 5-12; roles of content and methods; participation in a secondary teaching situation. Prerequisite(s): 200:128; 200:148; 250:150; 800:160; 800:165 or 800:166; 800:188. (Offered Spring)

### **800:191(g). Contemporary Mathematics Curricula - 1-2 hrs.**

Study and evaluation of innovative curriculum materials. Focus on early elementary, middle grades, or high school curriculum. May be repeated for a different curriculum level with consent of department. Prerequisite(s): 800:134 or 800:188 or 800:190; junior standing. (Offered Summer)

### **800:192. Mathematics for Elementary Students with Special Needs - 1 hr.**

Assessing, designing, and providing appropriate mathematical tasks for students with special needs. Prerequisite(s): 800:134 or 800:190. (Offered Fall and Spring)

### **800:194. Senior Mathematics Seminar - 1 hr.**

Researching and writing a paper exploring specific theme, topic, or problem in mathematics, culminating with oral presentation to the class. Prerequisite(s): senior mathematics major. (Offered Fall and Spring)

### **800:195. Undergraduate Research in Mathematics - 3 hrs.**

Research on selected topic in mathematics with faculty supervision. Presentation of written paper at departmental seminar. Prerequisite(s): completion of the major core with minimum GPA of 3.00. (Offered Fall and Spring)

### **800:196(g). Applied Multivariate Statistical Analysis - 3 hrs.**

Multivariate normal distribution, tests of significance with multivariate data, discrimination and classification, clustering, principal components, canonical correlations, use of statistical computer packages. Prerequisite(s): 800:076; 800:174; junior standing. (Variable)

### **800:197(g). Introduction to Financial Engineering - 3 hrs.**

Financial derivatives, option pricing, Binomial model, Black-Scholes formula, Greeks and hedging, introduction to stochastic calculus, financial model simulation, Monte-Carlo valuation. Prerequisite(s): 800:152; junior standing. (Offered Spring)

### **800:198. Independent Study. (Variable)**

### **800:201. Mathematical Analysis I - 3 hrs.**

Set theory; the real number system; Lebesgue measure; Lebesgue integral. Prerequisite(s): 800:141 or consent of instructor. (Offered Fall)



**800:202. Mathematical Analysis II - 3 hrs.**

Differentiation and integration; classical Banach spaces; metric spaces; general measure and integration theory. Prerequisite(s): 800:201. (Offered Spring)

**800:203. Complex Analysis I - 3 hrs.**

Analyticity; differentiation and integration of functions of one complex variable; power series, Laurent series; calculus of residues. Prerequisite(s): 800:140; 800:156; or consent of instructor. (Offered Spring)

**800:204. Complex Analysis II - 3 hrs.**

Analytic continuation; harmonic functions; entire functions; conformal mapping; selected applications. Prerequisite(s): 800:203. (Variable)

**800:210. Theory of Numbers - 3 hrs.**

Mathematical study of integers: induction, divisibility, prime numbers, congruences, quadratic reciprocity, multiplicative functions. (Variable)

**800:211. Teaching Algebra in the Middle Grades - 2 hrs.**

Examination of literature and students' thinking related to algebraic concepts. Curriculum issues, teaching strategies, and implications of technology. Prerequisite(s): 800:215 or consent of department. (Offered Summer)

**800:213. Selected Topics in Mathematics for the Middle Grades - 2 hrs.**

Investigation of mathematical topic(s), such as geometry, data analysis, probability, or number sense. Examination of a major mathematical idea including implications of research literature, and examination of relevant curriculum materials. May be repeated once on a different topic with consent of department. Prerequisite(s): consent of department. (Variable)

**800:214. Mathematical Problem Solving in the Middle Grades - 1 hr.**

Solving problems from a variety of mathematical topics such as linear programming, geometry, and probability. Analyzing problem-solving techniques and teaching strategies. Investigating issues related to implementing a problem-solving approach in the classroom. (Variable)

**800:215. Teaching Rational Numbers - 2 hrs.**

Examination of literature, problems, and issues related to teaching fractions, decimals, ratios, proportion, and percent in grades 4-8. Exploration of innovative strategies for developing concepts, skills, and proportional reasoning. Implications of research and reform recommendations for the curriculum. (Variable)

**800:220. New Developments in Middle Grades Mathematics - 3 hrs.**

Investigation of current recommendations for goals, content, instructional strategies, and curriculum of mathematics programs in grades 4-8. In-depth examination of selected content and implementation of a problem-solving approach to instruction. Focus on application to classroom practice and planning for change for a selected topic. (Variable)

**800:221. Mathematics Literacy in an Information Age - 2 hrs.**

Examination of applications and contributions of mathematics to other disciplines, the workplace, personal lives, and society. Investigation of shifting conceptions of mathematics and mathematics literacy in today's world. Diverse uses of mathematics illustrated. Prerequisite(s): 800:220; 800:236; 800:238. (Variable)

**800:222. Issues and Problems in Teaching Mathematics in the Middle Grades - 2 hrs.**

Issues and problems related to current reform in mathematics, including planning curriculum, assessing student learning, managing instruction, and providing for individual needs. Examination of related literature. Prerequisite(s): 800:220. (Variable)

**800:236. Mathematics for the Middle Grades Teachers I - 3 hrs.**

Integrated, historical, and cultural study of development and structure of quantity, data, and chance. Focus on mathematical ways of knowing and verification. (Variable)

**800:237. Technology in Middle Grades Mathematics - 2 hrs.**

Uses of technology in teaching and learning mathematics. Examination of research related to incorporating technology in the teaching of mathematics. (Variable)

**800:238. Mathematics for the Middle Grades Teacher II - 3 hrs.**

Integrated, historical, and cultural study of development and structure of patterns, functions, relationships, and shapes. Focus on ways of knowing and verification. Prerequisite(s): 800:236. (Variable)

**800:240. Abstract Algebra I - 3 hrs.**

Groups: quotient groups, isomorphism theorems, products of groups, group actions, Sylow theorems, solvable and nilpotent groups. Rings and fields: quotient rings, rings of polynomials, integral domains, fields of fractions. Prerequisite(s): 800:162 or consent of instructor. (Offered Fall)

**800:241. Abstract Algebra II - 3 hrs.**

Rings: arithmetic properties, prime and maximal ideals, Noetherian rings. Modules and vector spaces: linear transformations, free modules, finitely generated modules over PIDs, canonical forms. Fields: field extensions, Galois theory, solvability by radicals. Prerequisite(s): 800:240 (Formerly 800:245) (Offered Spring)

**800:243. Topics in Discrete Mathematics - 3 hrs.**

Topics from combinatorics, graph theory, analysis and application of algorithms, recurrence relations, difference equations, linear programming, and mathematical induction. Applications of these topics in the secondary curriculum. Prerequisite(s): 800:143 or 800:160. (Variable)

**800:246. Topics in the History of Mathematics - 3 hrs.**

Topics from history of algebra, analysis, arithmetic, geometry, number theory, probability, and topology as they appear in the development of Mesopotamian, Greek, Islamic, Indian, Chinese, and Western civilizations. May be repeated on different topic with consent of instructor. Prerequisite(s): 800:180 or 800:185. (Variable)

**800:263. Topics in Mathematical Logic and Set Theory - 3 hrs.**

Topics from the predicate calculus and first-order mathematical theories; the Godel completeness and incompleteness theorems; algebraic and many-valued logic; Boolean algebras, lattices, representation theorems, and models in set theory and mathematical logic; independence of the axioms of set theory (including the axiom of choice and the continuum hypothesis). May be repeated on different topic with consent of instructor. Prerequisite(s): 800:169 or 800:182, depending on the topic. (Variable)

**800:266. Topics in Geometry - 3 hrs.**

Topics from Euclidean and non-Euclidean geometry: convexity, polyhedra and polytopes, model-making, curves and surfaces, paper-folding, symmetry, history, circle inversion, and other topics at the discretion of the instructor. Prerequisite(s): consent of instructor. (Variable)

**800:267. Non-Euclidean Geometry - 3 hrs.**

Historical development of geometry models that do not assume Euclid's fifth postulate. Emphasis on Poincaré's disc and upper half-plane models, distance and area in the hyperbolic plane, and Mobius transformations. Prerequisite(s): 800:076; 800:160; 800:165 or 800:166. (Variable)

**800:271. Teaching Statistics at the Secondary Level - 3 hrs.**

Teaching probability, and descriptive and inferential statistics to secondary students. Distributions of discrete and continuous random variables, confidence intervals, hypothesis testing, regression and correlation. Prerequisite(s): 800:152 or 800:173. (Variable)

**800:272. Advanced Statistical Methods - 3 hrs.**

Categorical data analysis, logistic and Poisson regression, forecasting, repeated measures, classification and discriminant analysis, cluster analysis, data mining. Prerequisite(s): 800:123. (Variable)

**800:273. Topics in Probability and Statistics - 3 hrs.**

Topics from correlation and regression analysis, analysis of variance and co-variance, non-parametric methods, order statistics. May be repeated on different topic with consent of instructor. Prerequisite(s): consent of instructor. (Variable)

**800:274. Project Management for Science Professionals - 3 hrs.**

General systems management, organizational structures, composition and role of project teams, project management processes, related quantitative techniques and methodologies, practical implementations, and project management software. (Variable)

## 800 Mathematics/810 Computer Science

### **800:275. Industrial Internship/Project - 6 hrs.**

Mathematical analysis of industrial problems. Features work on a project of interest to a cooperating company. Oral and written reports required on the project. Prerequisite(s): approval of graduate coordinator and admittance to the P.S.M. program. (Variable)

### **800:277. Applied Numerical Analysis - 3 hrs.**

Estimations of accuracy in numerical calculations, propagation of error and backward error analysis; numerical solutions of differential equations and boundary value problems by Euler, Runge-Kutta, Galerkin, finite difference and finite element methods; spline approximations. Prerequisite(s): 800:062; 800:076. (Variable)

### **800:280. Mathematics at the Secondary Level - 3 hrs.**

History of secondary mathematics in the U.S. Overview of the most recent reform movement in mathematics education; its effect on the teaching and learning of high school mathematics. Prerequisite(s): graduate standing in mathematics. (Variable)

### **800:281. Current Research in School Mathematics - 3 hrs.**

Analysis of research in mathematics education and its implications for instruction in high school programs. Prerequisite(s): 800:280. (Variable)

### **800:291. Problems and Issues in Teaching High School Mathematics - 3 hrs.**

Course content decided by participants and instructor. Consideration of both mathematics content and methodology of the senior high school. Prerequisite(s): consent of department. (Variable)

### **800:293. The Secondary School Mathematics Curriculum - 3 hrs.**

Comparison of current secondary curriculum with national standards, implementation, assessment, and the role of technology. (Variable)

### **800:299. Research.**

(Variable)

## **810 Computer Science**

### **810:017. Web Development: Client-Side Coding - 3 hrs.**

Client-side Web development adhering to recent/current Web standards. Includes by-hand Web page development involving basic HTML, CSS, data acquisition using forms, and JavaScript for data validation and simple Web-based tools. (Offered Fall)

### **810:021. Computing Skills and Concepts - 3 hrs.**

Introduction to operation, applications, implications of computers, microcomputers, and network communications. Develops skill in current applications and sensitizes students to societal issues related to computing. (Offered Fall and Spring)

### **810:022. Microcomputer Applications and Systems Integration - 3 hrs.**

Emphasis on developing macros and programs, importing and exporting files between applications, solving and implementing applications and problems, and other more advanced topics. Examination of software such as word processing, spreadsheets, and database languages. Prerequisite(s): 810:021 or equivalent. (Offered Fall)

### **810:023. Microcomputer Systems - 3 hrs.**

Functional description of microcomputer operating systems; commands and utilities, system and file organization, memory and file management, troubleshooting strategies, and networks. Prerequisite(s): 810:022 or any one-semester programming course. (Offered Spring)

### **810:024. Software Applications for Testing - 3 hrs.**

Introduces productivity tools used by software testers including word processors, spreadsheets, and databases. Develops skills for producing and integrating text, spreadsheet, and database files in a software testing context. (Variable)

### **810:025. Computational Modeling and Simulation - 3 hrs.**

Explores computational approaches to solving complex problems using computational tools and dynamic and discrete simulations. Topics include problem representation, modeling, simulation, and model/simulation validation, with applications in the sciences, social sciences, and business. (Offered Fall and Spring)

### **810:030. Visual BASIC Programming - 3 hrs.**

Programming using the language Visual BASIC. Broad coverage of language syntax, programming practice, and programming problems appropriate to the novice or end-use programmer using a personal computer. (Offered Fall and Spring)

### **810:034. COBOL - 3 hrs.**

Examination of the COBOL language; emphasis on data processing techniques and structured programming methods. Sequential and indexed files, file maintenance, sorting, report design, and multi-file processing. Concepts illustrated by business-like examples. Prerequisite(s): one of the following - 150:032, 810:030, 810:035, 810:036, or 810:051. (Offered Spring)

### **810:035. C Programming - 3 hrs.**

Programming using the language C. Broad coverage of language syntax, programming practice, and programming problems appropriate for the systems and technical programmer. (Variable)

### **810:036. C/C++ Programming - 3 hrs.**

Programming using the C and C++ languages including the object-oriented paradigm. Broad coverage of language syntax and programming practice. Appropriate for developers of general computing applications and systems. Course presumes no prior programming experience. (Offered Fall)

### **810:041. Computer Organization - 3 hrs.**

Study of computers in terms of their major functional units. Machine representations of data, digital logic, memory, CPUs, buses, and input/output. Instruction set architectures and their implementations, addressing methods, and sequencing. Assembly language programming. (Offered Fall and Spring)

### **810:051. Introduction to Computing - 4 hrs.**

Introduction to software development through algorithmic problem solving and procedural abstraction. Programming in the small. Fundamental control structures, data modeling, and file processing. Significant emphasis on program design and style. (Offered Fall and Spring)

### **810:052. Data Structures - 4 hrs.**

Introduction to use and implementation of data and file structures such as sets, hash tables, stacks, trees, queues, heaps, and graphs. Basic algorithm analysis. Searching and sorting. Basic object-oriented analysis, design, and modeling tools. Prerequisite(s): 810:051. Prerequisite(s) or corequisite(s): 810:080. (Offered Fall and Spring)

### **810:053. Intermediate Computing - 3 hrs.**

Intermediate software development in an object-oriented environment. Further experience with object-oriented analysis and design, including modeling languages. Focus on software reuse through frameworks

and patterns and on software development methodology and tools. Prerequisite(s): 810:051; 810:052; 810:080. (Offered Fall and Spring)

### **810:071. Software Requirements Analysis - 3 hrs.**

Software analysis techniques including graphic modeling, use of CASE tools, and document production. Techniques for problem understanding, requirements identification, and validation and verification are also addressed. Prerequisite(s): 810:030; 810:080. (Variable)

### **810:080. Discrete Structures - 3 hrs.**

Introduction to logical forms, arguments, predicates, and quantified statements; methods of proof; elementary number theory; counting; sequences; sets; functions; relations; graphs; and Boolean algebra in the context of computer science. Prerequisite(s): 810:030, 810:036, or 810:051. (Offered Fall and Spring)

### **810:088. Topics in Computing - 3 hrs.**

Topics from recent developments in computing appropriate to students with limited computer science background, often relating to relatively sophisticated or technical use of computing or recent developments in programming. May be repeated on different topic. Prerequisite(s): consent of instructor. (Variable)

**810:112(g). User Interface Design - 3 hrs.**

Examination of the theory, design, programming, and evaluation of interactive application interfaces. Built around a large design and implementation project that is completed in groups. Topics include human capabilities and limitations, the interface design and engineering process, prototyping and interface construction, interface evaluation, and possibly topics such as data visualization and the World Wide Web. Prerequisite(s): 810:114, 810:115, 810:153, 810:154, 810:172, or consent of instructor for non-majors; junior standing. (Variable)

**810:114(g). Database Systems - 3 hrs.**

Storage of, and access to, physical databases; data models, query languages, transaction processing, and recovery techniques; object-oriented and distributed database systems; and database design. Prerequisite(s): 810:052; 810:080; junior standing. (Offered Fall)

**810:115(g). Information Storage and Retrieval - 3 hrs.**

Natural language processing; analysis of textual material by statistical, syntactic, and logical methods; retrieval systems models, dictionary construction, query processing, file structures, content analysis; automatic retrieval systems and question-answering systems; and evaluation of retrieval effectiveness. Prerequisite(s): 810:052; 810:080; junior standing. (Offered Spring)

**810:116(g). Projects in Information Science - 3 hrs.**

Projects in information storage and retrieval; data base systems; information mining and modeling; file structures; storage area networks; question-answering systems; transaction processing; natural language processing; the analysis of textual material by statistical techniques; syntactic and logical methods; retrieval systems models, dictionary construction, and XML; query processing; content analysis; evaluation of retrieval effectiveness. Prerequisite(s): 810:114 or 810:115; junior standing; consent of instructor. (Offered Fall)

**810:118(g). Topics in Information Science - 3 hrs.**

Advanced topics in information storage and retrieval; data base systems; information mining and modeling; file structures; storage area networks; question-answering systems; transaction processing; natural language processing; the analysis of textual material by statistical techniques; syntactic and logical methods; retrieval systems, dictionary construction, and XML; query processing; content analysis; and evaluation of retrieval effectiveness. Prerequisite(s): 810:114 or 810:115; junior standing; consent of instructor. (Variable)

**810:140(g). System Administration - 3 hrs.**

Major concepts and mechanisms associated with computer system administration. Focus on issues surrounding user management, the configuration of services, and the coordination of distributed resources. Prerequisite(s): 810:147; junior standing. (Variable)

**810:141(g). System Security - 3 hrs.**

Topics include the need for security services, data integrity, network intrusion and monitoring, configuration of secure services, root kits, and buffer overflow techniques and remedies. Additional topics include enterprise-wide monitoring, honeypots, and recognizing trends in a networked environment. Prerequisite(s): 810:147; junior standing. (Variable)

**810:142. Computer Architecture - 3 hrs.**

Basic concepts of computer architecture with special focus on principles underlying contemporary uniprocessor design. Interaction of hardware and software, and consideration of efficient use of hardware to achieve high performance. Topics include instruction set design, processor design, pipelining, the memory hierarchy, design trade-offs, I/O systems, performance measurement, and multiprocessors. Prerequisite(s): 810:041. (Offered Fall)

**810:143(g). Operating Systems - 3 hrs.**

History and evolution of operating systems; process and processor management; primary and auxiliary storage management; performance evaluation, security, and distributed systems issues; and case studies of mod-

ern operating systems. Prerequisite(s): 810:041; 810:052; 810:080; junior standing. (Offered Spring)

**810:145(g). Projects in Computer Systems - 3 hrs.**

Projects in computer architecture, operating systems, networking, and parallel and distributed computing. Prerequisite(s): 810:142 or 810:143 or 810:147; junior standing; consent of instructor. (Offered Spring)

**810:147(g). Networking - 3 hrs.**

Network architectures and communication protocol standards. Topics include communication of digital data, data-link protocols, local-area networks, network-layer protocols, transport-layer protocols, applications, network security, and management. Prerequisite(s): 810:041; 810:052; 810:080; junior standing. Prerequisites for Industrial Technology majors: 330:037; 330:041; 330:042; 810:036. (Offered Fall)

**810:151. Topics in Programming - 1 hr.**

Quick study of a specified programming language or environment for those with considerable programming experience. Language syntax and semantics, common problems solved using it, and best practices. Prerequisite(s): 810:052; 810:080. (Offered Spring)

**810:153. Design and Analysis of Algorithms - 3 hrs.**

Algorithm design techniques such as dynamic programming and greedy algorithms; complexity analysis of algorithms; efficient algorithms for classical problems; intractable problems and techniques for addressing them; and algorithms for parallel machines. Prerequisite(s): 810:052; 810:080. (Variable)

**810:154. Programming Languages and Paradigms - 3 hrs.**

Organization of programming languages; language design issues including syntax, data types, sequence control, and storage management; comparison of language features from object-oriented, imperative, functional, and logical paradigms. Prerequisite(s): 810:052; 810:080. (Variable)

**810:155(g). Translation of Programming Languages - 3 hrs.**

Introduction to analysis of programming languages and construction of translators. Prerequisite(s): 810:154; junior standing. (Variable)

**810:161(g). Artificial Intelligence - 3-4 hrs.**

Models of intelligent behavior and problem solving; knowledge representation and search methods; learning; topics such as knowledge-based systems, language understanding, and vision; optional 1-hour lab to include exploration of one or more additional AI programming techniques such as robotics, symbolic programming, heuristic programming, etc. Prerequisite(s): 810:052; 810:080; junior standing. (Variable)

**810:162(g). Intelligent Systems - 3 hrs.**

Design and implementation of programs that apply artificial intelligence techniques to problems such as design, diagnosis, and distributed problem solving. Emphasis on team design and development of large systems. Prerequisite(s): 810:161; junior standing. (Variable)

**810:165. Computing for Bioinformatics I - 3 hrs.**

Intermediate programming with emphasis on bioinformatics. Introduction to computational DNA and protein sequence analysis; genome rearrangements; restriction mapping; dynamic programming and optimal alignment algorithms; exploration of BLAST, FASTA, and gapped alignment. Prerequisite(s): 810:036 or 810:051; 810:080. (Formerly 810:065) (Offered Fall)

**810:166(g). Computing for Bioinformatics II - 3 hrs.**

Advanced bioinformatics computing: DNA sequencing and fragment assembly; gene expression arrays; clustering algorithms; evolutionary trees; multiple alignments: PSI-BLAST, CLUSTAL; graphical 3-D representation of proteins; Hidden Markov models. Prerequisite(s): 810:165; junior standing. (Formerly 810:066) (Offered Spring)

**810:172(g). Software Engineering - 3 hrs.**

Study of software life cycle models and their phases-planning, requirements, specifications, design, implementation, testing, and maintenance. Emphasis on tools, documentation, and applications. Prerequisite(s): 810:052; 810:080; junior standing. (Offered Fall and Spring)

## 810 Computer Science/820 Science and Science Education

### **810:173(g). Project Management - 3 hrs.**

Examination of problems of organizing, controlling, managing, and evaluating a software project; software metrics and human input. Prerequisite(s): 810:172; junior standing. (Variable)

### **810:174(g). Real-Time Embedded Systems - 4 hrs.**

Specification, design, and implementation principles and techniques for real-time embedded systems. Topics include programming languages and paradigms, reliability and fault tolerance, concurrent programming, scheduling, and the interaction between hardware and software. Student teams will complete a significant real-time embedded software project. Prerequisite(s): 810:172; junior standing. (Variable)

### **810:175(g). Software Testing - 3 hrs.**

Taxonomy of software defects, approaches to identifying software defects, and test case development. Unit testing, functional testing, and software inspection. Prerequisite(s): 810:071 or 810:172; junior standing. (Variable)

### **810:179. Cooperative Education - 1-4 hrs.**

Application of classroom learning to field experience. Credit may not be applied to major or minor. Offered on credit/no credit basis only. (Offered Fall and Spring)

### **810:180. Undergraduate Research in Computer Science - 1-3 hrs.**

(Offered Fall and Spring)

### **810:181(g). Theory of Computation - 3 hrs.**

Topics include regular languages and grammars; finite state automata; context-free languages and grammars; language recognition and parsing; and Turing computability and undecidability. Prerequisite(s): 800:074 or 810:080; junior standing. (Variable)

### **810:188(g). Topics in Computer Science - 3 hrs.**

Topics of general interest from any area of computer science, including systems, software, or theory. Prerequisite(s): 810:052; 810:080; junior standing. (Variable)

### **810:214. Database Management Systems - 3 hrs.**

Database system concepts, physical data organization, the network model and the DBTG Proposal, the hierarchical model, the relational model, relational query languages, design theory of relational databases, query optimization, and normalization. Prerequisite(s): consent of instructor. (Variable)

### **810:215. Problems in Information Storage and Retrieval - 3 hrs.**

Study of current research in advanced natural language processing; analysis of natural language text by statistical, syntactic, and logical methods; retrieval systems models, dictionary construction, query processing, file structures, and content analysis; automatic retrieval systems and question-answering systems; and evaluation of retrieval effectiveness. Prerequisite(s): consent of instructor. (Variable)

### **810:240. Computer Systems - 3 hrs.**

Survey of issues in computer system analysis and design. Topics include single-processor, multi-processor, and networked architectures. Emphasis on relationship between system hardware and software. Prerequisite(s): 810:142 or 810:143. (Variable)

### **810:248. Topics in Computer Systems - 3 hrs.**

Advanced topics in computer architecture, operating systems, networking, and distributed computing. May be repeated on a different topic. Prerequisite(s): 810:240. (Variable)

### **810:261. Problems in Artificial Intelligence - 3 hrs.**

Topics include philosophy of AI, knowledge representation, search, natural language, speech understanding, vision, planning, learning and learning techniques, and knowledge-based systems and system organization and system-building techniques. Prerequisite(s): 810:161. (Variable)

### **810:270. Algorithms - 3 hrs.**

Survey of analysis and design of algorithms. Topics include algorithm design techniques, efficient algorithms for classical problems, and intractable problems and techniques for solving them. Prerequisite(s): 810:153. (Variable)

### **810:278. Topics in Software Engineering - 3 hrs.**

Advanced topics in software engineering such as analysis methods, design, development, quality assurance, and testing. May be repeated on different topic. Prerequisite(s): 810:172. (Variable)

### **810:280. Theoretical Foundations of Computing - 3 hrs.**

Survey of theoretical models of computation and basic theory of computability. Topics include Turing machines, undecidability, NP-completeness, and computational complexity. Consideration of applications of theory to contemporary problems in computing. Prerequisite(s): 810:181. (Variable)

## **820 Science and Science Education**

### **820:031. Inquiry into Physical Science - 4 hrs.**

Inquiry-oriented introduction to fundamental concepts and processes in physics and chemistry that includes energy, force and motion, and the nature of matter. Integrated lecture/lab for 5 periods. For Elementary Education majors only. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics (Offered Fall and Spring)

### **820:032. Inquiry into Life Science - 4 hrs.**

Inquiry-oriented introduction to fundamental concepts and processes in life science that includes ecology, evolution, genetics, cell biology, physiology, and microorganisms. Integrated lecture/lab for 4 periods; plus 1 hour arranged. For Elementary Education majors only. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

### **820:033. Inquiry into Earth Science - 4 hrs.**

Inquiry-oriented introduction to fundamental concepts and processes in meteorology, astronomy and geology using active investigation. Integrated lecture/lab for 4 periods; plus 1 hour arranged. For Elementary Education majors only. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

### **820:113(g). Techniques for Science Teachers - 1-3 hrs.**

Spectrum of options to help science teachers improve their teaching. Topics may include teaching strategies, laboratory techniques, or learning psychologies that apply to teaching various science disciplines and age levels. Topic listed in Schedule of Classes. Application to major requires advisor approval. Prerequisite(s): junior standing; consent of instructor. (Variable)

### **820:130(g). Experiences in Elementary School Science - 2 hrs.**

Development of understanding science as an investigative process and how this relates to elementary science teaching. Seminar discussions and field experiences in applying knowledge of science content and pedagogy to working with elementary-level students. Prerequisite(s): two courses from 820:181, 840:181, or 870:181; junior standing. (Offered Fall)

### **820:140. Environment, Technology, and Society - 2 hrs.**

Emphasis on relationships and interactions of physical, biological, technological, and cultural components of environment. Study of selected interdisciplinary problems. Elaborates on student's previous university experience and develops environmental literacy. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics; completion of both Liberal Arts Core Life Sciences and Physical Sciences requirements; junior standing. (*Same as CAP:140*) (Offered Fall, Spring, and Summer)

### **820:150. Science, Mathematics, and Technology in the Americas - 3 hrs.**

Surveys the unique contributions made by indigenous and immigrant populations to the development of science, mathematics, and technology in the Americas. Interdepartmentally team-taught. Prerequisite(s): junior standing. (*Same as CAP:150*) (Variable)

### **820:181. Investigations in Physical Science - 4 hrs.**

Introduction to concepts and theories of physical science and modeling

of effective teaching strategies related to elementary school level. Topics include electricity, magnetism, light, solutions, acids and bases, and states of matter. Discussion and/or lab, 5 periods. Prerequisite(s): 820:031. (Offered Spring)

**820:189. Seminar in Environmental Problems - 1 hr.**

Exploration of current topics by student teams. Team examination of various facets of an issue, focusing on development of a factual resume of natural, political, economic, and humanistic data which will be integrated for use in developing potential solutions. Value clarification activities. (Variable)

**820:190(g). Orientation to Science Teaching - 3 hrs.**

Focus on particular issues in secondary science classrooms with regard to instructional strategies, assessment, planning, and management. Current national and state trends are also highlighted. Required for licensure to teach secondary science; to precede student teaching. Discussion, 3 periods. Field experiences in secondary school classrooms. Prerequisite(s): 200:128; 200:148; 250:150; a major or minor in a science area or consent of instructor; junior standing. Prerequisite(s) or corequisite(s): 820:196. (Offered Fall and Spring)

**820:191. Undergraduate Research in Science Education - 1-3 hrs.**

Research activities under direct supervision of Science Education faculty members. May be repeated for maximum of 4 hours. Prerequisite(s): consent of instructor and department. (Variable)

**820:193(g). Current Curricula in the Physical Sciences - 3 hrs.**

Philosophy, methods, and materials for Grades 6-12 physical science including physics, chemistry, and earth science. Examination and evaluation of current curricular materials, curriculum development, and appropriate assessment strategies. Field experiences in secondary school classrooms. Prerequisite(s): 820:190; 820:196; junior standing. (Offered Fall)

**820:195. Science Teaching Seminar - 1 hr.**

Discussion of various current science teaching topics. Sample topics include current science education research, innovative teaching and assessment strategies, science standards and benchmarks. Discussion, 1 period. Prerequisite(s): junior standing. (Variable)

**820:196. Current Technologies in Science Teaching - 2 hrs.**

Exploration of and instruction in current educational technologies to facilitate science teaching. Primary attention given to computer, video, and calculator applications and their supporting materials. Discussion/lab, 3 periods. Field experiences in secondary school classrooms. Prerequisite(s): major or minor in a science teaching program or consent of instructor. (Offered Fall and Spring)

**820:198. Independent Study.**

(Variable)

**820:200. The History, Philosophy, and Nature of Science - 2 hrs.**

Examination of the nature of science and major philosophical developments of science throughout history, and the implications to the science classroom. Discussion 2 hrs./wk. (Variable)

**820:209. Business Management for Science Professionals - 3 hrs.**

Designed to provide science professionals with a strong foundation of critical business knowledge and skills, including strategic management, accounting, legal issues, personnel management, and communication styles and formats. Prerequisite(s): 820:289 (Offered Fall and Spring)

**820:213. Teaching-Learning Models in Science Education - 2 hrs.**

Survey of learning theories from behaviorism to constructivism and the way those theories are translated into practice through various pedagogies. Prerequisite(s): 200:148 or equivalent. (Variable)

**820:215. Team-Based Problem Solving - 3 hrs.**

Teams of P.S.M. students work together to solve problems that typify real-world situations or to provide consultative services to companies. Prerequisite(s): 820:289; minimum of 6 hours completed in a P.S.M. degree program. (Offered Fall and Spring)

**820:270. Special Problems in Science Education - 1-6 hrs.**

Problems selected according to needs of students. Prerequisite: consent of chairperson of Science Education Faculty. (Variable)

**820:289. Professional Science Master's Seminar - 1 hr.**

Weekly seminar for Professional Science Master's students which alternates student presentations with discussions between students and company representatives. Presentations are on select industries or corporations, one presentation every other seminar session. Alternate weeks are devoted to discussions with representatives of the selected companies. May be repeated for maximum of 3 hours. Prerequisite(s): admittance to the P.S.M. graduate program. (Offered Fall and Spring)

**820:290. Trends and Issues in Science Education - 2 hrs.**

Major trends and issues in science education, focusing primarily on science education from the 1950s to present. Discussion, 2 hours/week. (Variable)

**820:294. Developing Science Curricula - 2 hrs.**

Analysis and design of science curricula, with attention to articulation K-12. Prerequisite(s): 820:190 or equivalent. (Variable)

**820:295. Professional Science Master's Internship - 4-6 hrs.**

Supervised work experience for Professional Science Master's students. Students will receive appropriate industrial/corporate training in their specific field of expertise. Prerequisite(s): enrolled in P.S.M. program and consent of appropriate department head. (Offered Fall and Spring)

**820:299. Research.**

(Offered Fall, Spring, and Summer)

## 830 Environmental Science

**830:165(g). Environmental Health Science - 3 hrs.**

Comprehensive survey of the interaction between human health and the quality and state of the natural environment. Prerequisite(s): junior standing. (Same as 410:165g) (Offered Fall and Spring)

**830:166(g). Environmental and Occupational Health Regulations - 3 hrs.**

Overview of environmental and occupational safety laws applied to the practice of environmental science. Emphasis on application of the legislation with a focus on regulations. Includes major environmental laws such as the National Environmental Policy Act, Clean Air Act, Clean Water Act, and the Occupational Safety and Health Act. Prerequisite(s): junior standing. (Same as 410:166g) (Offered Odd Springs)

**830:195. Environmental Science/Technology Internship - 1-10 hrs.**

Supervised work experience in conjunction with academic project conducted under faculty guidance. May be repeated for maximum of 12 hours. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**830:200. Environmental Biology - 3 hrs.**

Advanced topics in physiological ecology, community ecology, environmental microbiology, ecological genetics, bioenergetics, and biodiversity. (Offered Odd Falls)

**830:235. Topics in Environmental Chemistry - 3 hrs.**

Advanced topics in chemistry for environmental science and technology. Topics include water, air, and geochemistry; environmental chemistry, measurement techniques, and chemical ecology. (Offered Odd Springs)

**830:250. Global Systems - 3 hrs.**

Advanced topics in global systems for environmental science and technology. Topics include surface and groundwater hydrology, meteorology, atmospheric physics, and oceanography to gain an understanding of physical and geological processes that influence and are influenced by earth's biosphere. (Offered Even Falls)

**830:285. Readings in Environmental Science/Technology - 1-10 hrs.**

Independent readings in environmental science/technology from selected list approved in advance. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

## 830 Environmental Science/840 Biology

### **830:289. Environmental Science/Technology Seminar - 1 hr.**

Current topics in environmental science/technology. Students will present one seminar per year. Prerequisite(s): must be currently enrolled in Environmental Science graduate program. (Offered Fall and Spring)

### **830:292. Environmental Analysis - 3 hrs.**

Laboratory methods and techniques in environmental science with emphasis in measurements, chemical constituents, and biological parameters important to understanding environmental processes. Prerequisite: enrolled in graduate studies in Biology, Chemistry, or Environmental Science/Technology and Health. (Offered Even Falls)

### **830:299. Research - 1-9 hrs.**

Prerequisite(s): must be currently enrolled in Environmental Science graduate program. (Offered Fall and Spring)

## **840 Biology**

### **840:012. Life: The Natural World - 3 hrs.**

Examines living organisms with an emphasis on how the natural world functions as a system and how plants and animals, including humans, interact. Declared biology majors cannot receive either university or elective credit for this course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

### **840:013. Life: The Natural World - Lab - 1 hr.**

Activities illustrating the importance, origins, and maintenance of biodiversity with a focus on the interactions among organisms and between organisms and the environment. Declared biology majors cannot receive either university or elective credit for this course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. Prerequisite(s) or corequisite(s): 840:012. (Offered Fall and Spring)

### **840:014. Life: Continuity and Change - 3 hrs.**

Introduction to contemporary topics in biology. Emphasis on study of gene structure and function and applications of biology to human concerns. Declared biology majors cannot receive either university or elective credit for this course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall, Spring, and Summer)

### **840:015. Life: Continuity and Change - Lab - 1 hr.**

Process of science and application of biology to human concerns stressed through student activities involving basic life science concepts encompassing cell structure and function, human genetics, and disease transmission. Emphasis on assisting students in understanding role of biology in our present society. Lab, 2 periods. Declared biology majors cannot receive either university or elective credit for this course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. Prerequisite(s) or corequisite(s): 840:014 or equivalent. (Offered Fall and Spring)

### **840:033. Principles of Microbiology - 3 hrs.**

Basic concepts and practical applications of microbiology in medicine, immunology, sanitation, and food preparation in daily life. Designed for students majoring in areas other than the sciences. For biology majors and minors counts only for university elective credit. Sections may be offered exclusively for nurses in training. Discussion, 2 periods; lab, 2 periods. (Offered Fall)

### **840:051. General Biology: Organismal Diversity - 4 hrs.**

Study of organismic biology emphasizing evolutionary patterns and diversity of organisms and interdependency of structure and function in living systems. Discussion, 3 periods; lab, 2 periods. (Offered Fall and Spring)

### **840:052. General Biology: Cell Structure and Function - 4 hrs.**

Introduction to the properties and functions of biological molecules, organization of living cells, production and utilization of energy, and devel-

opment of multicellular organisms. Discussion, 3 periods; lab, 2 periods. (Offered Fall, Spring, and Summer)

### **840:060. Careers in Biology: \_\_\_\_\_ - 2 hrs.**

Assists in career planning. Self-assessment, career opportunities, information on requirements, resumes, and application procedures in biology and related fields. Offered on credit/no credit basis only. For Biology majors and minors counts only for university elective credit. (Variable)

### **840:084. Introduction to Natural History Interpretation - 3 hrs.**

Exploration and analysis of the skills, settings, characteristics, domains, and experiences of the Natural History Interpreter. Interpretive presentation development and initiation of a Natural History Interpretation Portfolio for those pursuing the minor in Natural History Interpretation. Discussion, 3 periods. Prerequisite(s): 840:051; 840:052. (Offered Even Springs)

### **840:089. Seminar - 1 hr.**

(Variable)

### **840:100. Ecological and Evolutionary Theory - 3 hrs.**

Unifying principles of biology: how organisms interact with each other and the environment, the genetic continuity of life, and how past history affects life. Readings and student-led discussions explore concepts in detail. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. Prerequisites for Earth Science Major - Interpretive Naturalist Emphasis: 840:051; 840:052; 860:044. (Offered Fall and Spring)

### **840:101. Anatomy and Physiology I - 4 hrs.**

Structure and function of organ systems of human body. For students in allied health fields or other university-approved programs. Others must have consent of department head. For Biology majors and minors, counts only for university elective credit. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:061 or 860:070, or consent of department head. (Offered Fall, Spring, and Summer)

### **840:102. Anatomy and Physiology II - 4 hrs.**

Continuation of 840:101. For students in allied health fields or other university-approved programs. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): C- or better in 840:101 or 840:106. (Offered Fall, Spring, and Summer)

### **840:103. Applied Ecology and Conservation - 4 hrs.**

Impacts of human settlement in the Midwest on biodiversity, including overhunting, river channelization, wetland drainage, and agricultural intensification. Critical analysis of conservation initiatives. Field experience locating endangered habitat using topographic soils maps. Lecture/discussion, 3 periods; field and lab, 3 periods; arranged field trip. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Variable)

### **840:105(g). Wildlife Ecology and Management - 4 hrs.**

Ecologically based principles of managing populations of game and non-game wildlife. Includes scientific theory and sociopolitical perspectives of management. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

### **840:106. Vertebrate Anatomy - 4 hrs.**

Consideration of the origin and evolution of vertebrates and comparison of vertebrate structure and function. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Fall and Spring)

### **840:110. Obesity and Diabetes: Science, Sociology and Economics - 2 hrs.**

Over the last 20 years Americans, as well as the rest of the world, have been gaining weight at an alarming rate. As a consequence, diseases such as diabetes, high blood pressure, stroke, heart attack and kidney failure have become more prevalent. Discussion of the possible origins and examination of potential solutions for two pathologies - obesity and diabetes. Prerequisite(s): junior standing. (Same as CAP:110) (Variable)

### **840:112. Invertebrate Zoology - 4 hrs.**

Morphology, physiology, phylogeny, taxonomy, and ecology of the inver-

tebrates. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Spring)

**840:114(g). Comparative Animal Physiology - 3 hrs.**

Physical and chemical basis of cellular/organ functions in various animals. Discussion, 3 periods. Prerequisite(s): 840:100; 840:140; 860:063 or 860:120; junior standing. (Offered Even Falls)

**840:115(g). Comparative Animal Physiology Laboratory - 1 hr.**

Laboratory experience in comparative animal physiology. Cellular and organ physiology studied in a variety of animals. Lab, 3 periods. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 840:114. (Offered Even Falls)

**840:119. Biotechnology Applications - 3 hrs.**

Highlights applications of biotechnology to improve human life and the environment. Introduction to microbial, animal, and plant biotechnology using a problem-based approach requiring team work. Discussion, 3 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. Prerequisites for Bioinformatics majors and minors: 840:052; 860:044 and 860:048, or 860:070. (Offered Fall)

**840:120. Plant Diversity and Evolution - 4 hrs.**

Form and function in vegetative and reproductive organs in all plant divisions, from algae to flowering plants, and their importance in evolutionary thought and plant classification. Lecture, 3 periods; lab, 2 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Spring)

**840:121(g). Plant Biotechnology - 4 hrs.**

Highlights the theory and applications of plant tissue cultures, genetic engineering (including use of plants for production of antibodies and vaccines), marker-assisted selection, and genomics. Lab component gives students practical experience with the biotechnology applications discussed in lecture. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Spring)

**840:122(g). Plant Physiology - 4 hrs.**

How plants work: uptake and use of water and materials, synthesis and transport of organic compounds, growth and development, and responses to environment. Lecture, 3 periods; lab, 3 periods. Prerequisite(s): 840:100; 840:140; 860:063 or 860:120; junior standing. (Offered Spring)

**840:124. Plants for Human Use - 3 hrs.**

Emphasis on interrelationships between plants and people, including impact of plants on human history. Topics include food, herbs, spices, beverages, forestry, textiles, dyes, and medicines. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Variable)

**840:127(g). Bioinformatics Applications for Biology - 3 hrs.**

Introduction to computer based analyses and management applications for molecular biological data. Topics include bioinformatics history, instrumentation, PC applications, resources, data bases, and discussions of genomics and proteomics applications. Discussion, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. Prerequisites for Bioinformatics majors and minors: 840:140; junior standing. (Variable)

**840:128(g). Cell Biology - 4 hrs.**

Foundation in cellular structure, organization, and function, with emphasis on molecular aspects of gene regulation, signal transduction, and cell cycle control. Laboratory will correlate with lecture topics and will also emphasize developing laboratory skills and improving analytical and writing abilities. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 840:100; 840:140; 860:063 or 860:120; junior standing. (Offered Fall)

**840:129(g). Genomics and Proteomics - 3 hrs.**

Highlights advances in genome and protein sequencing, sequencing strategies, interpretation of sequence data, database mining, sequence information for drug development, analyzing gene and protein expressions using DNA and protein chips, and bioethical issues surrounding genomics. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; 840:119 or 840:128 or 860:154; junior standing. (Offered Fall)

**840:131(g). Animal Behavior - 4 hrs.**

Mechanisms, adaptive significance, evolution, and ecology of behavior and sociality. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

**840:137(g). Vertebrate Physiology Laboratory - 1 hr.**

Laboratory experience in experimental vertebrate physiology. Focus on organ and cellular aspects of physiology. Lab, 3 periods. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 840:138. (Offered Odd Falls)

**840:138(g). Vertebrate Physiology - 3 hrs.**

Functions of organ systems in vertebrates; emphasis on human body. Discussion, 3 periods. Must be taken with 840:137 if used to fulfill biology core requirement. Prerequisite(s): 840:100; 840:140; 860:063 or 860:120; junior standing. (Offered Odd Falls)

**840:140. Genetics - 4 hrs.**

Analytical approach to classical, molecular, and population genetics. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. Prerequisites for Bioinformatics majors and minors: 840:052; 860:044 and 860:048, or 860:070. (Offered Fall and Spring)

**840:142(g). Evolutionary Biology - 3 hrs.**

Conceptual overview of evolutionary theory, mechanisms of evolutionary process, speciation and major evolutionary events. Discussion, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Spring)

**840:143(g). Biogeography and Origins of Diversity - 3 hrs.**

Readings and discussion interrelating how biodiversity and its geographical distribution have been shaped by earth history, ecology, and evolutionary processes. Discussion, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

**840:144(g). Virology - 4 hrs.**

Introduction to virus structure, replication, genetics, pathogenicity, host interactions, detection, epidemiology, evolution, and virology methods. Health, agriculture, research and industry applications. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

**840:146(g). Developmental Biology of Animals - 4 hrs.**

Major concepts and central questions of animal development and controlling mechanisms. Laboratory emphasis on experimental inquiry and developmental anatomy. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Spring)

**840:147. Cancer and Emerging Infectious Diseases - 3 hrs.**

Cellular and molecular study of cancer, its epidemiology, standard and novel cancer treatments, examination of emerging and re-emerging infectious diseases, their causative organisms, and human immune responses to them. Discussion, 3 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Spring)

**840:148(g). Human Genetics and Human Evolution - 3 hrs.**

Genetics and evolution of humans, including human reproductive processes and technologies, single gene and polygenic human traits, genetic engineering, and human evolution, including a description and interpretation of fossil hominoids and behavioral and cultural evolution. Prerequisite(s): 840:052; junior standing. (Variable)

**840:149(g). Applied and Environmental Microbiology - 3 hrs.**

Growth and metabolic diversity of microorganisms focusing on their practical applications for foods, pharmaceuticals, agriculture, and the solving of environmental problems. Discussion, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

**840:150(g). Immunology - 4 hrs.**

Focus on multiple levels of human immunity, from organs/cells to molecular events. Basic immunology and relationships between immunology and various disease states. Laboratory experiences include many commonly-used immunology techniques. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

## 840 Biology

### **840:151. General Microbiology - 4 hrs.**

Physiology, morphology, taxonomy, immunology, and pathogenicity of microbes, with applications to medicine, agriculture, sanitation, and industry. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Fall and Spring)

### **840:152. Microbial Molecular Genetics - 4 hrs.**

Introduction to the study of microbial genetics and molecular biology. Laboratory emphasizes methods used to study bacteria inheritance patterns (conjugation, transduction, and transformation mapping) and modern molecular techniques of genetic analysis such as polymerase chain reaction and DNA sequencing. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Spring)

### **840:153(g). Recombinant DNA Techniques - 4 hrs.**

Study of techniques for analyzing and manipulating DNA and RNA, including polymerase chain reaction, genomic library construction, gene expression, and genomic analysis with computers. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 840:100; 840:140; junior standing. Prerequisites for Bioinformatics majors and minors: 840:140; junior standing. (Offered Fall)

### **840:154(g). Aquatic Ecology - 3 hrs.**

Introduction to geological, physical, chemical, and biological factors that interact to determine functional characteristics of inland waters. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:155(g). Ecotoxicology - 4 hrs.**

Detailed overview of ecological and toxicological aspects of environmental pollution emphasizing responses of populations, communities, and ecosystems to contaminants. Traditional biomonitoring and toxicity testing methods, state-of-the-art concepts and methodologies. Lecture/discussion, 3 periods; lab, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

### **840:157(g). Biostatistics - 3 hrs.**

Introduction to methods used to analyze and interpret numerical data from biological experiments. Emphasis on parametric statistics; use of SAS computer package for computations. Lecture, 2 hours; lab, 2 hours. Prerequisite(s): 800:046 or equivalent; 840:100; 840:140; junior standing. (Offered Spring)

### **840:160. Field Zoology of Vertebrates - 4 hrs.**

Identification and natural history of Iowa vertebrates. Emphasis on field trips. Discussion, 2 periods; lab and field work, 6 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Offered Spring)

### **840:162(g). Ornithology - 4 hrs.**

Biology of birds, including systematics, behavior, and ecology. Lecture, 3 periods; lab and field, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

### **840:164(g). Mammalogy - 4 hrs.**

Biology of mammals, including evolutionary history, zoogeography, ecology, and diversity. Laboratory emphasis on identifications, natural history, and field techniques. Lecture, 3 periods; lab and field, 3 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:166(g). Plant Systematics - 4 hrs.**

Classification and identification of vascular plants, with emphasis on evolution of species and larger groups. Discussion, 2 periods; lab and field work, 4 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:167(g). Conservation Biology - 3 hrs.**

Patterns of biological diversity, conservation ethics, extinction threats, island biogeography theory, population genetics of rare species, conservation in zoos, establishment and management of protected areas, and community-based conservation. Lecture/discussion, 3 periods; arranged field trip. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:168(g). Ecology - 4 hrs.**

Relationship of organisms to their environment with emphasis on principles of population, community, and ecosystem structure and dynamics. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:170. Entomology - 3 hrs.**

Introduction to biology of insects. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Variable)

### **840:171. Plant-Animal Interactions - 3 hrs.**

Integration of plant and animal ecology from an evolutionary perspective. Topics include co-evolution, ecological biochemistry, pollination biology, herbivore, ant-plant mutualism, seed dispersal by mammals, and carnivorous plants. Discussion, 3 periods. Prerequisite(s): 840:051; 840:052; 860:044 and 860:048, or 860:070. (Variable)

### **840:172(g). Developmental Plant Anatomy - 4 hrs.**

Structure and function of flowering plants, with emphasis on cell and organ development. Lecture, 2 periods; lab, 4 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:173(g). Measuring Plant-Environmental Interactions - 3 hrs.**

Theory and practice of measurements of interactions between environmental factors and plants. Two-thirds of the course involves using modern instrumentation to measure radiation quantity and quality; air temperature, humidity, and velocity; and soil moisture status. The last third will be devoted to plant water use and water status, and to photosynthetic gas exchange. Lecture, 2 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Variable)

### **840:174. Field Biology: \_\_\_\_\_ - 1-3 hrs.**

Selected topics in field biology, emphasizing hands-on techniques for field observation, and testing of evolutionary and ecological hypotheses. Offered both on- and off-campus in flexible format. Topics and hours listed in Schedule of Classes. May be repeated for credit on different topic. Prerequisite(s): vary with topic. (Variable)

### **840:178(g). Fire Management in Ecosystems - 3 hrs.**

Study of fire, its relationship to organisms and other components of ecosystems, and implications for management of ecosystems. Examination of prescribed burning as a management tool. Students will be trained in conducting prescribed burns and participate as burn crew members. Lecture/discussion, 2 periods; lab, 2 periods. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Spring)

### **840:179. Cooperative Education.**

A maximum of 3 graded hours of credit can be applied to a biology major as major elective credit. Up to 9 additional hours of ungraded credit (credit/no credit basis) may be taken as university electives. (Offered Fall, Spring, and Summer)

### **840:180(g). Restoration Ecology - 4 hrs.**

Ecological principles applied to restoration of degraded terrestrial and freshwater ecosystems. Topics include fire, soils, hydrology, biological invasion. Discussion, 3 periods; lab, 3 periods; arranged field trips. Prerequisite(s): 840:100; 840:140; junior standing. (Offered Fall)

### **840:181. Investigations in Life Science - 4 hrs.**

Introduction to significant life science concepts and models of effective teaching related to elementary school life science. Topics include cellular structure and function, inheritance, plant systems, and human systems. Discussion and/or lab, 5 periods. Prerequisite(s): 820:032. (Offered Spring)

### **840:184(g). Natural History Interpretation Techniques - 4 hrs.**

Development of effective techniques for relating natural history concepts and events to diverse audiences, with an emphasis on Iowa natural history. Lecture/discussion, 3 periods; lab, 2 periods. Prerequisite(s): 840:084; 840:100; 840:140; junior standing. For Earth Science Major-Interpretive Naturalist Emphasis: 840:084; 840:100; junior standing. (Offered Odd Springs)



**840:185. Readings in Biology - 1-3 hrs.**

Independent readings in biology from selected list approved in advance. Maximum of 3 hours for biology major or minor. Prerequisite(s): consent of department. (Offered Fall, Spring, and Summer)

**840:189. Seminar - 1-2 hrs.**

(Variable)

**840:190. Undergraduate Research in Biology - 1-3 hrs.**

Research activities under direct supervision of Biology faculty members. Credit determined prior to registration based upon student proposal with agreement of faculty advisor. May be repeated for maximum of 4 hours. Prerequisite(s): 840:051; 840:052; sophomore standing; consent of department. (Offered Fall, Spring, and Summer)

**840:191. Senior Thesis - 1 hr.**

Senior research thesis. Open only to and required for students pursuing the B.S. Biology or B.A. Biology Honors Emphasis. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**840:193(g). Current Curricula in the Life Sciences - 3 hrs.**

Philosophy, methods, and materials of the life sciences for grades 5-12. Examination and evaluation of current curricular materials, curriculum development, and assessment strategies. Field experiences in secondary school classrooms. Prerequisite(s): 820:190; junior standing. (Offered Spring)

**840:195. Internship/Field Experience - 1-10 hrs.**

Supervised work experience in approved work situation. Offered on credit/no credit basis only. Prerequisite(s): consent of department. (Offered Fall, Spring, and Summer)

**840:196. Natural History Interpretation Colloquium - 1 hr.**

Upon completion of the rest of the requirements of the Natural History Interpretation minor, enrollees refine and present an exemplary component of the portfolio - an interpretive display or program. Completed portfolio also submitted for evaluation. Prerequisite(s): 430:050 or 430:146 or 430:170; 840:180 or 990:125; 840:184. Prerequisite(s) or corequisite(s): 840:179 or 870:195. (Variable)

**840:197. Undergraduate Practicum in Biology Teaching - 1 hr.**

Examination of teaching strategies and practical experience in laboratory teaching through observation and assistance in introductory biology laboratories. Offered on credit/no credit basis only. Prerequisite(s) or corequisite(s): 840:193; consent of instructor. (Offered Fall and Spring)

**840:198. Independent Study.**

(Offered Fall, Spring, and Summer)

**840:202. Graduate Colloquium - 1 hr.**

Weekly presentation by a student, faculty member, or visitor on biological topic. Taken each semester for four semesters for maximum of 4 hours. Discussion, 1 period. (Offered Fall and Spring)

**840:230. Special Problems in Biology - 1-6 hrs.**

Credit determined at registration. (Problems in biology other than those for theses or in regular curricular offerings.) Prerequisite(s): 840:292 recommended; consent of department. (Offered Fall, Spring, and Summer)

**840:240. Advanced Cellular and Molecular Biology - 3 hrs.**

Selected topics concerning understanding of function of living organisms at molecular and cellular level: regulatory mechanisms, recombinant DNA techniques, gene expression, and genetics of diseases. Lecture/discussion, 3 periods. May be repeated on different topic. Prerequisite(s): consent of instructor. (Offered Spring)

**840:250. Advanced Physiology and Development - 3 hrs.**

Selected topics concerning understanding of organ, organ system, and organism structure and function: immune system, cellular signaling mechanisms, photosynthesis, and cell motility and development. Lecture/discussion, 3 periods. May be repeated on different topic. Prerequisite(s): consent of instructor. (Offered Odd Falls)

**840:260. Advanced Ecology - 3 hrs.**

Selected topics of ecology, concerning the understanding of relationships

among organisms, and between organisms and their environments (natural or artificial): physiological ecology, conservation biology, and aquatic ecology. Lecture/discussion, 3 periods. May be repeated on different topic. Prerequisite(s): consent of instructor. (Offered Spring)

**840:270. Advanced Systematics and Evolutionary Biology - 3 hrs.**

Selected topics concerning understanding of systematic and evolutionary relationships among organisms and evolutionary biology: evolutionary theory, systematics, and origin of life. Lecture/discussion, 3 periods. May be repeated on different topic. Prerequisite(s): consent of instructor. (Offered Even Falls)

**840:280. Advanced Analytical Techniques - 3 hrs.**

Discussion of advanced modern methods of biological data collection and analysis, including the use of computer algorithms to help understand experimental results obtained from laboratory or field. Discussion and/or lab, 5 periods. Prerequisite(s): consent of instructor. (Offered Fall)

**840:289. Seminar - 1 hr.**

(Variable)

**840:292. Research Methods in Biology - 1 hr.**

Introduction to research methods in biology. Emphasis on literature review, proposal preparation, and manuscript style. Discussion, 1 period. (Offered Fall and Spring)

**840:297. Practicum.**

(Variable)

**840:299. Research.**

(Offered Fall, Spring, and Summer)

**860 Chemistry and Biochemistry****860:010. Principles of Chemistry - 3-4 hrs.**

Basic concepts of chemistry, the periodic table and its relation to atomic structure and chemical properties. How the understanding of changes in matter and energy is important in both living and non-living systems. Work of the chemist and the interactions of chemistry with other activities of humankind. Discussion, 3 periods; lab, 2 periods. Occasionally offered as a 3-hour class without lab. No credit for student with credit in any college chemistry course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**860:011. Molecules and Life - 3 hrs.**

Basic concepts of chemistry, with an emphasis on the structure and function of molecules in living systems. Discussion, 3 periods. No credit for student with credit in any college chemistry course. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**860:020. Chemical Technology - 4 hrs.**

Basic concepts of inorganic and organic chemistry and their applications to industrial processes. Emphasis on application of chemical principles in materials, energy production and use, and environmental problems. Discussion, 3 periods; lab, 2 periods. No credit for student with credit in any college chemistry course. (Offered Fall)

**860:030. Careers in Chemistry - 1 hr.**

Presentations describing career opportunities and current areas of research in chemistry. Offered on credit/no credit basis only. No credit toward any major. Discussion, 1 period. (Offered Spring)

**860:044. General Chemistry I - 4 hrs.**

Structure of matter, its physical properties and laws describing them, the periodic table and its relation to atomic structure and chemical properties, and non-metallic elements and their compounds. Students with extensive background in high school chemistry and mathematics may enter 860:070 following departmental advisement. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall, Spring, and Summer)

## 860 Chemistry and Biochemistry

### 860:048. General Chemistry II - 4 hrs.

Continuation of 860:044 with emphasis on chemistry of non-metals, metals, chemical and ionic equilibrium, and separation and identification of ions. Discussion, 3 periods; lab, 3 periods. For pre-professional students and science majors with a special interest in chemistry. Prerequisite(s): 860:044 or equivalent. (Offered Fall, Spring, and Summer)

### 860:061. Applied General Chemistry - 4 hrs.

Basic concepts of chemistry, with particular attention to allied health and nutrition applications. Discussion, 3 periods; lab, 3 periods. No credit for students with credit in 860:044 or 860:070. (Offered Fall)

### 860:063. Applied Organic and Biochemistry - 4 hrs.

Basic concepts in organic chemistry and biochemistry, including nomenclature, functional groups, reactivity, and macromolecules. No credit for students with credit in 860:123. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 860:048 or 860:061 or 860:070. (Offered Spring)

### 860:070. General Chemistry I-II - 5 hrs.

Accelerated course for well-prepared students. Content similar to 860:044 and 860:048 but covered in one semester. Completion satisfies General Chemistry requirement of any chemistry major. Discussion, 4 periods; lab, 3 periods. Prerequisite(s): consent of department head. (Offered Fall)

### 860:110. Descriptive Inorganic Chemistry - 4 hrs.

Properties, structures, reactions, and applications of elements and their most important compounds. Discussion, 3 periods; lab, 3 periods. Prerequisite(s): 860:048 or 860:070. (Offered Fall and Spring)

### 860:120. Organic Chemistry I - 3 hrs.

Fundamentals of organic chemistry. For majors in the sciences and those preparing for medically-related careers. Discussion, 3 periods. Prerequisite(s): 860:048 or 860:070. (Offered Fall, Spring, and Summer)

### 860:121. Organic Chemistry Laboratory - 2 hrs.

Purification and identification techniques and some representative organic reactions. Lab, 6 periods. Prerequisite(s) or corequisite(s): 860:120. (Offered Fall and Spring)

### 860:123. Organic Chemistry II - 3 hrs.

Continuation of 860:120. Discussion, 3 periods. Prerequisite(s): 860:120. (Offered Fall, Spring, and Summer)

### 860:132. Quantitative Analysis - 4 hrs.

Theory, technique, and calculations of volumetric and gravimetric analysis. Statistical treatment of data. Classical analytical procedures supplemented by instrumental techniques. Discussion, 2 periods; lab, 6 periods. Prerequisite(s): 860:048 or 860:070. (Offered Fall and Spring)

### 860:136(g). Applied Instrumental Analysis - 4 hrs.

Applications of instrumental techniques to quantitative analysis, including principles and techniques of instrumentation in areas of chromatography, spectrophotometry, and electrochemistry. Discussion, 2 periods; lab, 6 periods. No credit toward majors requiring 860:137 and no credit for students with credit in 860:137. Prerequisite(s): 860:063 or 860:120; 860:132; junior standing. (Variable)

### 860:137(g). Instrumental Analysis - 4 hrs.

Application of physical chemical principles to theory and practice of instrumental methods of analysis such as spectrophotometric, electro-analytical, chromatographic, and computerized techniques. Discussion, 2 periods; lab, 6 periods. Prerequisite(s): 860:120; 860:132; 860:140; junior standing. Prerequisite(s) or corequisite(s): 860:141. (Offered Fall and Spring)

### 860:138(g). Environmental Chemistry - 3 hrs.

Study of sources, reactions, and transport of environmental pollutants in air and water. Lab includes analysis of specific chemical species in environmental samples. Discussion, 2 periods; lab, 3 periods. Prerequisite(s): 860:132; junior standing or consent of department head. (Variable)

### 860:140(g). Physical Chemistry: Thermodynamics - 3 hrs.

Application of laws of physics to energy changes in chemical processes

and reactions. Discussion, 3 periods. Prerequisite(s): 800:061; 860:048 or 860:070; 880:056 or 880:131; junior standing. (Offered Fall)

### 860:141(g). Physical Chemistry: Kinetics, Quantum Mechanics, and Spectroscopy - 3 hrs.

Application of laws of physics to atomic and molecular structure and behavior. Discussion, 3 periods. Prerequisite(s): 800:061; 860:048 or 860:070; 880:056 or 880:131; junior standing. (Offered Spring)

### 860:142(g). Principles of Physical Chemistry - 3 hrs.

Physical aspects of chemistry for needs of high school chemistry teacher, and for students in biological sciences. Discussion, 3 periods. Recommended: 880:054. Prerequisite(s): 800:046; 860:048 or 860:070; junior standing or consent of department head. (Offered Even Falls)

### 860:143(g). Physical Chemistry Laboratory - 1-3 hrs.

Physical measurement techniques in chemistry. Meets 3-9 hours per week. Two credit hours should be taken for the B.S. Chemistry major program; students should enroll concurrently with, or after, their second semester of physical chemistry. Those with credit in 860:142 may take 1 hour. Prerequisite(s): 860:132; 860:140 or 860:141 or 860:142; junior standing. (Offered Spring)

### 860:144(g). Introduction to Nanoscience and Nanotechnology - 3 hrs.

Introduction to nanoscale materials and processes; types of materials; chemical bonding and nanoscale interactions; nanoscale microscopy and spectroscopic methods of investigation. Prerequisite(s): 860:044; 860:048; 880:054 or 880:130; 880:056 or 880:131; junior standing. (*Same as 880:144g*) (Offered Fall)

### 860:145(g). Inorganic Chemistry - 3 hrs.

Applications of principles of physical chemistry to inorganic systems, with emphasis on chemistry of transition elements. Discussion, 3 periods. Prerequisite(s): 860:110; 860:120; 860:141; junior standing. (Offered Fall)

### 860:148(g). Intermediate Nanoscience and Nanotechnology - 3 hrs.

Study of nanoscale materials and processes, with emphasis on nanoscale microscopy and other experimental methods of investigation and control on the nanoscale. Prerequisite(s): 860:144/880:144; junior standing. (*Same as 880:148g*) (Offered Odd Springs)

### 860:149(g). Advanced Laboratory Techniques in Chemistry - 2 hrs.

Advanced techniques in synthesis, purification, and characterization of organic and inorganic compounds. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 860:110; 860:121; junior standing. Prerequisite(s) or corequisite(s): 860:123; 860:141. (Offered Fall)

### 860:154(g). Biochemistry I - 4 hrs.

Structure and function of biologically-important molecules including amino acids, proteins, carbohydrates, lipids, and nucleic acids; intermediary metabolism; and enzyme kinetics. Lecture, 4 periods. Prerequisite(s): C- or higher in 860:123; junior standing. (Offered Fall and Spring)

### 860:155(g). Biochemistry II - 2 hrs.

Continuation of 860:154. Bioenergetics, photosynthesis, additional metabolic pathways, enzyme mechanisms, macromolecular biosynthesis, recombinant DNA, and current topics in biochemistry. Lecture, 2 periods. Prerequisite(s): 860:154; junior standing. (Offered Spring)

### 860:156(g). Biochemistry Laboratory - 2 hrs.

Introduction to biochemical methodology. Chromatographic and electrophoretic purifications of proteins, lipids, and nucleic acids; chemical characterizations of amino acids, peptides, carbohydrates, and fatty acids; study of enzyme kinetics. Lab, 6 periods. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 860:154. (Offered Spring)

### 860:161(g). Organic Structure Analysis - 3 hrs.

Use of infrared and ultraviolet-visible spectroscopy, proton and carbon magnetic resonance, mass spectrometry, and other physical and chemical methods for assignment of structure to organic compounds. Discussion, 3 periods. Prerequisite(s): 860:121; 860:132; junior standing; consent of department head. Credit applied to B.S. Chemistry major requires additional prerequisite of 860:140 or 860:141. (Offered Odd Falls)

**860:180. Undergraduate Research in Chemistry - 1-3 hrs.**

May be repeated for maximum of 6 hours. Prerequisite(s): 860:121; 860:132; consent of department head. Credit applied to B.S. Chemistry major requires additional prerequisite of 860:140 or 860:141. (Offered Fall, Spring, and Summer)

**860:210. Advanced Inorganic Chemistry - 3 hrs.**

Coordination chemistry, organometallics, materials chemistry, or other advanced topics in inorganic chemistry. May be repeated on different topics with consent of instructor. Discussion, 3 periods. Prerequisite(s): 860:145 or consent of instructor. (Offered Odd Springs)

**860:211. Corporate Chemistry - 3 hrs.**

Survey of the major fields of industrial chemistry, with an introduction to the most important chemicals from a corporate perspective and their production and uses. Includes study and discussion of corporate economics, regulatory environment, and environmental issues. (Offered Fall)

**860:220. Advanced Organic Chemistry - 3 hrs.**

Product analysis, kinetics, and mechanism of organic reactions. May be repeated on different topics with consent of instructor. Discussion, 3 periods. Prerequisite(s): 860:123; 860:141; or consent of instructor. (Offered Even Falls)

**860:240. Special Problems in Chemistry - 1-6 hrs.**

Credit determined at registration. Problems selected according to needs of students. Prerequisite(s): consent of department head. (Offered Fall and Spring)

**860:241. Advanced Physical Chemistry - 3 hrs.**

Molecular structure, chemical kinetics, quantum mechanics, or other advanced topics in physical chemistry. May be repeated on different topics with consent of instructor. Discussion, 3 periods. Prerequisite(s): 860:140; 860:141; or consent of instructor. (Offered Odd Falls)

**860:242. Advanced Analytical Chemistry - 3-4 hrs.**

Chromatography, spectroscopy, electrochemistry, or other advanced topics in analytical chemistry. May be repeated on different topics with consent of instructor. Discussion, 3 periods; if offered for 4 hours, lab 3 additional periods. Prerequisite(s): 860:137; 860:140; 860:141; or consent of instructor. (Offered Even Springs)

**860:254. Advanced Biochemistry - 3 hrs.**

Amino acid and nucleotide biosynthesis and degradation, signal transduction, or other advanced topics in biochemistry. May be repeated on different topics with consent of instructor. Discussion, 3 periods. Prerequisite(s): 860:154; 860:155. (Offered Odd Falls)

**860:289. Seminar - 1 hr.**

Current topics in chemistry. May be repeated. (Offered Fall, Spring, and Summer)

**860:292. Research Methods and Chemical Literature - 1-3 hrs.**

Concepts and procedures for developing a chemical research problem; use and importance of chemical literature. (Offered Fall, Spring, and Summer)

**860:299. Research.**

(Offered Fall, Spring, and Summer)

**870 Earth Science****870:010. Astronomy - 3-4 hrs.**

Introduction to the Universe, solar system, stars, and galaxies, including apparent motions of bodies in the sky; development of astronomy and its impact on humankind. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall, Spring, and Summer)

**870:011. Astronomy Laboratory - 1 hr.**

Exploration of astronomical phenomena through the use of telescopes, charts, almanacs, computer simulations and other laboratory equipment. Students will gain experience in methods of observing the night sky and become familiar with stars and constellations visible through the year.

Prerequisite(s): consent of instructor. Corequisite(s): 870:010. (Offered Fall, Spring, and Summer)

**870:021. Elements of Weather - 3 hrs.**

Meteorological elements and their applications to environment; interpretation of weather maps and weather data; forecasting and briefing on daily weather. Discussion, 3 periods. No credit for those who have completed 870:121. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall, Spring, and Summer)

**870:022. Elements of Weather Laboratory - 1 hr.**

Fundamentals of meteorological observation, use of basic meteorological instruments, and applications of maps and charts to understanding forecasts. Intended for science teaching majors and minors. Lab, 2 periods. Prerequisite(s) or corequisite(s): 870:021. (Offered Fall and Spring)

**870:031. Introduction to Geology - 4 hrs.**

Introduction to the physical environment, emphasizing materials of the Earth and processes that lead to changes within and on the Earth. Lab emphasis includes rocks and minerals, geologic processes, and landscape development. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**870:035. Earth History - 4 hrs.**

Methods and principles used in deciphering the 4.6 billion-year history of our planet; discussion of history and evolution of life on Earth and examination of major physical and plate-tectonic events through geologic time. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 870:031 or equivalent. (Offered Fall and Spring)

**870:037. Field Studies in \_\_\_\_\_ - 1-4 hrs.**

Field studies in various areas of Earth Science: geology, oceanography, paleontology, meteorology, and astronomy. To be preceded by seminars on proposed study area. Student collection of data in the field and reports on their findings. May be repeated in different study area. Only 4 hours may be applied to the Earth Science minor. Prerequisite(s): consent of instructor. (Variable)

**870:109(g). Fundamentals of Astronomy - 3 hrs.**

Basic principles of astronomy intended primarily for teachers. No credit for students with credit in 870:010 or its equivalent. Prerequisite(s): one year of high school algebra or equivalent; junior standing; consent of department head. (Offered Fall, Spring, and Summer)

**870:111(g). Fundamentals of Weather - 3 hrs.**

Basic principles of meteorology intended primarily for inservice teachers. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

**870:113(g). Topics in Earth Science - 1-3 hrs.**

Offered both on- and off-campus in flexible format. May include plate tectonics, geomagnetism, naked-eye astronomy, telescope usage, weather forecasting, or other topics of current interest. Topics listed in Schedule of Classes. May be repeated on different topic. Application to major requires consent of department head. Prerequisite(s): junior standing. (Offered Fall, Spring, and Summer)

**870:115(g). Volcanology - 3 hrs.**

Origin, classification, eruptive mechanisms, and hazards of volcanoes, and related phenomena. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 870:031 or equivalent; junior standing. (Offered Odd Springs)

**870:117. Earthquakes and Tsunamis - 2 hrs.**

Study of the causes, measurements, prediction, and preparation for earthquakes and tsunamis and the effects of earthquakes and tsunamis on civilization. (Variable)

**870:121(g). Meteorology - 4 hrs.**

Topics of weather observation and prediction; physical basis of cloud formation; radiational heating and cooling; the Earth's energy budget; wind circulation; precipitation processes; storm systems; and maps and charts.

## 870 Earth Science

Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 860:044; 870:021; 880:054; junior standing. (Offered Fall)

### **870:122(g). Weather Analysis and Forecasting - 3 hrs.**

Focus on middle latitude weather systems, principally those of the cold season. Topics include discussion of historical conceptions and models of extratropical cyclones, present understanding of these weather systems, and techniques of analysis and prediction. Important component is hands-on forecasting. Discussion/lab, 4 periods. Prerequisite(s): 870:121; junior standing. (Offered Odd Springs)

### **870:123(g). Air Quality - 4 hrs.**

Topics from atmospheric dynamics, atmospheric chemistry, physical meteorology, and micrometeorology; atmospheric transport processes in time and space; local and regional concentrations of pollutants; implications of air pollution control strategies; numerical modeling techniques with application to air quality issues; field studies and remote sensing of atmospheric transport. Discussion, 4 periods. Prerequisite(s): 800:060; 870:121; junior standing. (Offered Even Springs)

### **870:124(g). Air Dispersion Modeling - 4 hrs.**

Fundamentals of numerical weather prediction; data assimilation; parameterization techniques; estimating emissions; puff and trajectory models; dispersion of dense gases; statistical models; atmospheric chemical transport models; urban and regional regulatory models. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 800:061; 800:072; 810:035 or 810:036; 870:123; junior standing. (Offered Even Falls)

### **870:125. Fossils and Evolution - 4 hrs.**

Topics in paleontology, including fossil preservation, systematics, functional morphology, paleoecology, paleobiogeography, and biostratigraphy, with special emphasis on mass extinctions and the role of paleontology in reconstructing evolutionary history. Laboratory studies of major groups of fossil invertebrates. Discussion, 3 periods; lab, 3 periods. (Offered Spring)

### **870:128(g). Fundamentals of Geology - 4 hrs.**

Basic principles of physical geology intended primarily for inservice teachers. Prerequisite(s): junior standing; consent of department head. (Offered Fall and Spring)

### **870:129(g). Structural Geology - 4 hrs.**

Origins and mechanics of rock deformation. Plate tectonics and the deformation of Earth's crust. Field trip. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 870:031; 870:035; junior standing. (Offered Even Springs)

### **870:130. Crystallography - 2 hrs.**

Morphologic, structural, and x-ray crystallography. Laboratory exercises emphasize identification of unknown compounds, determination of space lattices, space groups, and cell parameters by x-ray diffraction. Discussion, 2 periods; lab, 6 periods (half-semester course). (Offered Fall)

### **870:131. Systematic Mineralogy - 2 hrs.**

Crystal chemistry, determinative methods, and systematic description of naturally-occurring compounds with emphasis on rock-forming minerals. Laboratory exercises emphasize determinative techniques. Discussion, 2 periods; lab, 6 periods (half-semester course). Prerequisite(s): 870:031; 870:130. (Offered Fall)

### **870:135. Optical Mineralogy-Petrography - 4 hrs.**

Optical properties of minerals and use of the petrographic microscope with emphasis on identification of minerals in thin section. Introduction to the description and classification of igneous, metamorphic, and sedimentary rocks. Discussion, 2 periods; lab, 6 periods. Prerequisite(s): 870:131. (Offered Spring)

### **870:136(g). Stratigraphy and Sedimentation - 4 hrs.**

Investigation of layered rocks, sedimentary processes, sedimentation, environments of deposition, correlation procedures, and classification and description of common sedimentary rocks. Field trips. Discussion, 2 pe-

riods; lab, 4 periods. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 870:035. (Offered Fall)

### **870:137(g). Field Studies in \_\_\_\_\_ - 1-4 hrs.**

Field studies in various areas of Earth Science including geology, oceanography, paleontology, meteorology, and astronomy. To be preceded by seminars on the proposed study area. Student collection of data in the field and reports on their findings. May be repeated in different study area. Only 4 hours may be applied to the Earth Science minor. Prerequisite(s) or corequisite(s): an 870:1xx course appropriate to the specific field studies and approved by department head; junior standing; consent of instructor. (Variable)

### **870:141(g). Geomorphology - 3 hrs.**

Classification, description, origin, and development of landforms and their relationship to underlying structure and lithology; emphasis on geomorphic processes. Includes fluvial, glacial, periglacial, eolian, karstic, weathering, and mass-movement processes and features. Discussion, 2 periods; labs and field trips, 2 periods. Prerequisite(s): 870:031 or 970:026; junior standing. (Offered Fall)

### **870:142(g). Igneous Petrology - 4 hrs.**

Description, classification, and genesis of igneous rocks. Discussion, 2 periods; lab, 6 periods. Field trip. Prerequisite(s): 870:135; junior standing. (Offered Even Falls)

### **870:143(g). Geochemistry - 4 hrs.**

Distribution of elements in the Earth and the chemical processes governing these distributions. Discussion, 2 periods; lab, 6 periods. Prerequisite(s): 860:048 or 860:070; junior standing. (Variable)

### **870:151. Planets - 2 hrs.**

Examination of the Sun's family of nine planets, attendant satellites, and interplanetary debris; processes at work in the Solar System; search for planets elsewhere in the Galaxy. Discussion, 2 periods. Prerequisite(s): 870:010 or equivalent. (Offered Spring)

### **870:152. Stars - 2 hrs.**

Study of structure and the evolution of stars; the Sun, protostars, red giants, white dwarfs, variable stars, supernovae, pulsars, and black holes. Discussion, 2 periods. Prerequisite(s): 870:010 or equivalent. (Offered Odd Springs)

### **870:153. Galaxies and Cosmology - 2 hrs.**

Study of the Milky Way Galaxy and other galaxies. Examination of active galaxies and radio galaxies, quasars, and galactic black holes. Discussion of the structure, origin, and fate of the Universe. Discussion, 2 periods. Prerequisite(s): 870:010 or equivalent. (Offered Even Springs)

### **870:154(g). Observational Astronomy - 2 hrs.**

Use of astronomical instruments, (telescopes, cameras, and spectrometers), along with observing aids, (charts, catalogs, and ephemerides), for collection, analysis, and interpretation of astronomical data. Prerequisite(s): 870:010 (4 semester hours) or equivalent; junior standing. (Offered Fall)

### **870:165(g). Oceanography - 3 hrs.**

Basic principles of geological, biological, chemical, and physical oceanography; emphasis on marine geology. Physiographic features of ocean basins, coastal features and processes, oceanic sediments, biological and geological resources, and ocean management. Discussion, 3 periods. Prerequisite(s): 870:031 or equivalent; junior standing. (Offered Even Springs)

### **870:171(g). Environmental Geology - 3 hrs.**

Emphasis on geology's relation to social, economic, and political realms through team preparation of simulated environmental-impact statements or planning documents. Analysis of issues or problems of local concern where possible. Discussion, 3 periods. Prerequisite(s): 870:031 or equivalent; junior standing. (Offered Odd Falls)

### **870:173(g). Environmental Hydrology - 3 hrs.**

Introduction to environmental aspects of watershed hydrology. Surface

water hydrologic processes, pollution of surface water resources, surface water - ground water interactions, unsaturated zone hydrologic processes, movement of chemicals in soils, site characterization, and soil remediation techniques. Discussion, 3 periods. Prerequisite(s): 870:031; junior standing. (Offered Even Springs)

**870:175(g). Hydrogeology - 3 hrs.**

Principles and applications of hydrogeology including study of runoff, stream flow, soil moisture, and ground water flow. Examination and analysis of ground water flow to wells, regional ground water flow, geology of ground water occurrence, water chemistry of ground water, water quality and ground water contamination, ground water development and management, field methods, and ground water models. Discussion, 3 periods. Prerequisite(s): 870:031; junior standing. (Offered Odd Springs)

**870:177(g). Measurement and Analysis of Air Quality - 4 hrs.**

Fundamentals of air sampling and monitoring; estimating errors; collection and analysis of gases and particulates; olfactometry; remote sensing with satellites and lidar; indoor air quality. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): 800:060; 860:132; 870:123; junior standing. (Offered Odd Springs)

**870:180. Undergraduate Research in Earth Science - 1-3 hrs.**

Research activities under direct supervision of Earth Science faculty member. Credit to be determined at registration. May be repeated for maximum of 6 hours. Prerequisite(s): consent of instructor and department head. (Offered Fall, Spring, and Summer)

**870:181. Investigations in Earth Science - 4 hrs.**

Introduction to significant concepts and theories of earth science and a model of effective teaching strategies related to elementary school level. Topics include geologic materials and processes acting on them and fundamentals of earth history, weather, and astronomy. Discussion and/or lab, 5 periods plus arranged. Prerequisite(s): 820:031. (Offered Odd Springs)

**870:189(g). Readings in Earth Science - 1-3 hrs.**

Maximum of 3 hours may be applied to earth science or geology majors or minors. Prerequisite(s): junior standing; consent of instructor and department head. (Variable)

**870:191. Undergraduate Practicum - 1-2 hrs.**

Practical experience in teaching; participation in laboratory and instructional assistance under direct supervision of staff member. May be repeated for maximum of 4 hours. Prerequisite(s): junior standing; consent of instructor and department head. (Offered Fall and Spring)

**870:195. Internship - 1-6 hrs.**

Supervised work experience in approved work situation. Offered on credit/no credit basis only. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**870:292. Research Methods in Earth Science - 3 hrs.**

Methods and evaluation of research in the earth sciences. Individual exploration of possible research or thesis project. Discussion, 3 periods. (Variable)

**870:297. Practicum.**

(Variable)

**870:299. Research.**

(Variable)

## 880 Physics

**880:011. Conceptual Physics - 4 hrs.**

Energy; temperature and heat; waves and sound; electricity and magnetism; light and color; and atomic and nuclear structure of matter. Emphasis on observation, interpretation, and conceptual understanding of physical phenomena. Discussion, 3 periods; lab, 2 periods. Students may not earn credit in both 880:011 and 880:012. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**880:012. Physics in Everyday Life - 3 hrs.**

Basic laws and concepts of physics introduced and demonstrated through operation of everyday devices and systems. Emphasis on understanding physical principles behind working of modern technologies and interplay between science and technology. Students may not earn credit in both 880:011 and 880:012. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**880:054. General Physics I - 4 hrs.**

Algebra-based introductory course covering Newtonian mechanics, gravitation, and thermal physics. Emphasis on conceptual understanding of physical principles through group investigations and lab activities. Discussion/lab, 5 periods. Prerequisite(s): high school algebra and trigonometry or equivalent. (Offered Fall and Spring)

**880:056. General Physics II - 4 hrs.**

Algebra-based introductory course covering electricity, magnetism, optics, and modern physics. Emphasis on conceptual understanding of physical principles through group investigations and lab activities. Discussion/lab, 5 periods. Prerequisite(s): 880:054 or 880:130. (Offered Fall and Spring)

**880:130. Physics I for Science and Engineering - 4 hrs.**

Calculus-based introductory course covering Newtonian mechanics, gravitation, and thermal physics. Lab activities. Discussion/lab, 5 periods. Prerequisite(s): one year of high school physics or equivalent. Prerequisite(s) or corequisite(s): 800:060. (Offered Fall)

**880:131. Physics II for Science and Engineering - 4 hrs.**

Calculus-based introductory course covering electricity, magnetism, and optics. Lab activities. Discussion/lab, 5 periods. Prerequisite(s): 880:054 (minimum grade of B) or 880:130. Prerequisite(s) or corequisite(s): 800:061. (Offered Spring)

**880:132. Physics III: Theory and Simulation - 3 hrs.**

Calculus-based course covering the more advanced topics in introductory physics. Emphasis on developing analytical and computational skills needed to study physics at a more advanced level. Topics include Newtonian mechanics and applications, Maxwell's equations and applications. Prerequisite(s): 880:131. (Offered Fall)

**880:136(g). Thermodynamics and Statistical Mechanics - 4 hrs.**

General principles of classical thermodynamics and applications (e.g., to first-order phase transitions); general principles of statistical mechanics and application (e.g., to the classical ideal gas). Prerequisite(s): 800:062; 880:132; 880:137; junior standing. (Offered Even Falls)

**880:137(g). Modern Physics - 4 hrs.**

Special relativity; quantum phenomena; wave-particle duality; atomic and nuclear structure; properties of solids; interaction of radiation with matter; and elementary particles. Prerequisite(s): 880:131; junior standing. (Offered Spring)

**880:138(g). Modern Physics Laboratory - 2 hrs.**

Experiments on interactions of photons and electrons; mass and charge of electrons; atomic spectroscopy; nuclear detection and spectroscopy; spin resonance; and properties of solids. Requires detailed lab reports, including error analysis. Prerequisite(s): junior standing. Prerequisite(s) or corequisite(s): 880:137. (Offered Spring)

**880:139(g). Elementary Particle Physics - 3 hrs.**

Historical survey and basic concepts; elementary particle dynamics; relativistic kinematics; symmetries and conservation laws; Feynman rules; quantum electrodynamics; and weak interactions. Prerequisite(s): 880:137; junior standing. (Variable)

**880:140(g). Holography, Imaging, and Optical Measurement - 3 hrs.**

Holography is used as vehicle for learning modern optical techniques and for understanding basic wave interference properties of light. Topics include 3-D image formation; mirror, lens, and hologram ray tracing; holographic gratings and mirrors; holographic interferometry and color holography. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 880:056

## 880 Physics

or 880:131; junior standing or consent of department head. (Offered Even Falls)

### **880:141(g). Modern Optics: Lasers - 3 hrs.**

Laser principles, output characteristics and safe operating practices; industrial, medical and scientific applications. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 880:056 or 880:131; junior standing or consent of department head. (Variable)

### **880:144(g). Introduction to Nanoscience and Nanotechnology - 3 hrs.**

Introduction to nanoscale materials and processes; types of materials; chemical bonding and nanoscale interactions; nanoscale microscopy and spectroscopic methods of investigation. Prerequisite(s): 860:044; 860:048; 880:054 or 880:130; 880:056 or 880:131; junior standing. (*Same as 860:144g*) (Offered Fall)

### **880:148(g). Intermediate Nanoscience and Nanotechnology - 3 hrs.**

Study of nanoscale materials and processes, with emphasis on nanoscale microscopy and other experimental methods of investigation and control on the nanoscale. Prerequisite(s): 860:144/880:144; junior standing. (*Same as 860:148g*) (Offered Odd Springs)

### **880:150(g). Computational Physics - 3 hrs.**

Computer simulations and numerical solutions of behaviors of important physical systems, emphasizing those that are very difficult or impossible to analyze by traditional means, for example, nonlinear oscillators or phase transitions in the Ising Model. Prerequisite(s): 800:149; 880:132; 880:137; junior standing. (Offered Odd Falls)

### **880:152(g). Introduction to Electronics - 4 hrs.**

Basic DC and AC circuits; electrical measurements; power supplies; transistor circuits; operational amplifier circuits. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 880:056 or 880:131; junior standing or consent of department head. (Offered Fall)

### **880:154(g). Digital Electronics and Robotics - 4 hrs.**

Programmable analog switching; operational amplifier applications; digital logic gates; Boolean logic; microprocessor data acquisition using sensors on digital and analog ports; motor control; programming and software control of mobile robots. Discussion, 2 periods; lab, 4 periods. Prerequisite(s): 880:152 or equivalent; junior standing. (Offered Even Springs)

### **880:155(g). Magnetism and Magnetic Materials - 3 hrs.**

Origins of magnetism; paramagnetism; diamagnetism; ferromagnetism; ferrimagnetism; magnetoresistance; application of magnetic materials; design and fabrication of magnetic materials; finite-element modeling. Includes a lab. Prerequisite(s): 880:137; junior standing. (Offered Odd Falls)

### **880:157(g). Fundamentals of Physics I - 4 hrs.**

Algebra-based introductory course covering Newtonian mechanics, gravitation, and thermal physics. Emphasis on conceptual understanding of physical principles through group investigations and lab activities. Enrollment limited to graduate students other than physics majors; students with credit in 880:054 or equivalent may not take this course for credit. Discussion/lab, 5 periods. Prerequisite(s): high school algebra and trigonometry or equivalent; junior standing; consent of department head. (Offered Fall and Spring)

### **880:158(g). Fundamentals of Physics II - 4 hrs.**

Algebra-based introductory course covering electricity, magnetism, optics, and modern physics. Emphasis on conceptual understanding of physical principles through group investigations and lab activities. Enrollment limited to graduate students other than physics majors; students with credit in 880:056 or equivalent may not take this course for credit. Prerequisite(s): 880:157; junior standing; consent of department head. (Offered Fall and Spring)

### **880:160(g). Experiment Design - 3 hrs.**

Design and statistical analysis of observational and factorial experiments employing numerical and graphical methods, with examples and case

studies from industry and the natural sciences. Prerequisite(s): 800:121 or equivalent; junior standing. (Offered Fall and Spring)

### **880:166(g). Classical Mechanics - 4 hrs.**

Vectors and kinematics; force and motion; work and energy; Lagrange's equations; gravity; oscillations; rigid-body motion; and accelerated reference frames. Prerequisite(s): 800:061; 880:132; junior standing. (Offered Odd Falls)

### **880:167(g). Electrodynamics - 4 hrs.**

Vector calculus. Electrostatic fields and dielectrics; magnetic fields, magnetic forces, and magnetic materials; Maxwell's equations and electromagnetic waves. Prerequisite(s): 880:132; junior standing. (Offered Even Springs)

### **880:172(g). Quantum Mechanics - 4 hrs.**

Solution of Schrodinger equation for several systems: spin and angular momentum; identical particles; perturbation theory; WKB approximation; and scattering. Prerequisite(s): 800:149; 880:137; 880:166 or consent of instructor; junior standing. (Offered Odd Springs)

### **880:174(g). Physics of Modern Materials - 3 hrs.**

Structural, thermal, and electronic properties of materials; applications to modern devices. Discussion, 2 periods; lab, 2 periods. Prerequisite(s): 880:137; 880:138; junior standing. (Offered Even Falls)

### **880:179. Cooperative Education.**

Applied physics internship under 880:179 should be taken during the junior or senior year. If unable to do so, the internship may be done under 880:184 with consent of department. Successful completion of either 880:179 or 880:184 requires both a written and an oral report. Offered on credit/no credit basis only. (Offered Fall and Spring)

### **880:180. Undergraduate Research in Physics - 1-6 hrs.**

Research activities under direct supervision of sponsoring staff members or at a national laboratory. Should normally be taken during senior year. Successful completion of the research experience requires both a written and oral report. Prerequisite(s): minimum overall 2.50 GPA; consent of department. (Offered Fall and Spring)

### **880:184. Internship in Applied Physics - 1-3 hrs.**

Departmentally approved work in applied physics (at an industrial, medical, or government laboratory) followed by oral and written reports given on completed work. Offered on credit/no credit basis only. Prerequisite(s): minimum overall 2.50 GPA; consent of department. (Offered Fall and Spring)

### **880:185(g). Laboratory Projects - 1-3 hrs.**

Experimental activities to meet individual needs and interests not normally included in other courses. Maximum of 3 hours may be applied to a physics major or minor. Prerequisite(s): junior standing; consent of department. (Offered Fall and Spring)

### **880:187. Physics Seminar - 1 hr.**

Participation in at least 12 physics colloquia; oral report on research topic or internship. Prerequisite(s): junior standing. (Offered Fall and Spring)

### **880:189(g). Readings in Physics - 1-3 hrs.**

Readings/problems in areas of physics (or related interdisciplinary areas) not normally covered in other courses. Maximum of 3 hours may be applied to a physics major or minor. Prerequisite(s): junior standing; consent of department. (Variable)

### **880:190(g). Topics in Theoretical Physics - 2-4 hrs.**

Tutorial course for students who wish to pursue graduate study in physics. Topics may include variational principles in mechanics, tensor representation of rigid-body rotations, boundary-value problems in electrostatics, and solution of the wave equation in electrodynamics. Prerequisite(s): 800:149; 880:166; 880:167; senior standing in B.S. Physics major; consent of department. (Variable)

### **880:205. Modeling and Simulation of Physical Systems - 3 hrs.**

Introduction to current computational modeling methods and their uses in physical and other systems. Prerequisite(s): 880:150, or 800:176 and a

course in computer programming, or the equivalent. (Offered Spring)

**880:220. Computer Interfacing and Signal Processing - 3 hrs.**

Introduction to computer interfacing, instrument control, and data acquisition. Discussion of digital signal processing and utilization of industry-standard software platforms in laboratory activities. Prerequisite(s): 880:132; 880:152. (Offered Odd Springs)

**880:250. Special Problems in Physics - 1-6 hrs.**

Credit determined at registration. Problems selected according to needs of students. Prerequisite(s): consent of department. (Variable)

**880:299. Research.**

(Variable)

## 890 Iowa Lakeside Laboratory

*Iowa Lakeside Laboratory is a field station located in the Iowa Great Lakes region of northwest Iowa. It is run cooperatively by the three Regents' Universities. Each summer Iowa Lakeside Laboratory offers a variety of hands-on courses in many disciplines (archaeology, art, biology, ecology, environmental science, hydrology, evolution, geology, soils, taxonomy). Both undergraduate and graduate courses are offered. For information about courses being offered this summer and registration/housing forms, see the Iowa Lakeside Laboratory Bulletin Web site [www.continuetolearn.uiowa.edu/lakesidelab/](http://www.continuetolearn.uiowa.edu/lakesidelab/) or contact the Iowa Lakeside Laboratory Administrative Office (250 Continuing Education Facility, The University of Iowa, Iowa City, IA 52242-0907. Phone: (319) 353-2806 or (888) IOWAEDU (469-2338). E-mail: [iowalakesidelab@www.continuetolearn.uiowa.edu](mailto:iowalakesidelab@www.continuetolearn.uiowa.edu).) Early registration is advisable because enrollment is limited to only 8-10 students in most courses.*

**890:010. Earth, Air and Sky - 3 hrs.**

Introduction to the essentials of earth science (astronomy, meteorology, geology, and paleontology). (Offered Summer)

**890:031. Ecology - 4 hrs.**

Introduction to the principles of ecology at the population, community, and ecosystem level. Field studies of local lakes, wetlands, and prairies are used to examine factors controlling distributions, interactions, and roles of plants and animals in native ecosystems. (Offered Summer)

**890:040. Archaeology - 4 hrs.**

Nature of cultural and environmental evidence in archaeology and how they are used to model past human behavior and land use; emphasis on Iowa prehistory; basic reconnaissance surveying and excavation techniques. (Offered Summer)

**890:043. Illustrating Nature-Sketching - 2 hrs.**

Sketching plants, animals, and terrain. Visual communication, development of a personal style, and integration of typographic and visual elements on a page will be emphasized. (Offered Summer)

**890:044. Illustrating Nature - Photography - 2 hrs.**

Beginning to intermediate technical and compositional aspects of color photography of natural areas and their plants and animals. (Offered Summer)

**890:050. Undergraduate Internships - 1-5 hrs.**

Placement with county conservation boards, camps, parks, etc., for experience as interpreters, rangers, and technicians. Prerequisite(s): sophomore standing; consent of instructor. (Offered Summer)

**890:064. Biology of Aquatic Plants - 4 hrs.**

Field-oriented introduction to the taxonomy and ecology of aquatic plants in lakes, wetlands, and rivers. Individual or group projects. (Offered Summer)

**890:100(g). Techniques For Biology Teaching - 1-2 hrs.**

Development and implementation of laboratory exercises suitable for inclusion in elementary, middle, high school, and community college biology and environmental courses. Exercises will be built around common organisms and ecosystems in Iowa. Field trips.

A. Animal Biology

B. Plant Biology

C. Fungi and Lichens

D. Aquatic Ecology

E. Prairie Ecology

F. Wetland Ecology

G. Limnology

H. Animal Behavior

I. Insect Ecology

J. Biology of Invertebrates

K. Non-invasive Use of Living Organisms

L. Leopold Education Project

W. Project WET Prerequisite(s): junior standing. (Offered Summer)

**890:102(g). Plant-Animal Interactions - 4 hrs.**

Introduction to ecology and co-evolution of plants and animals. Emphasis on dispersal, pollination, and plant-herbivore interactions; field and laboratory work, reading, and discussion. Prerequisite(s): one course in the biological sciences; junior standing. (Variable)

**890:103(g). Aquatic Ecology - 4 hrs.**

Analysis of aquatic ecosystems. Emphasis on basic ecological principles; ecological theories tested in the field, and identification of common plants and animals. Prerequisite(s): courses in ecology, chemistry, and physics; junior standing. (Offered Summer)

**890:105(g). Plant Taxonomy - 4 hrs.**

Principles of classification and evolution of vascular plants; taxonomic tools and collection techniques; use of keys. Field and laboratory studies emphasizing identification of local flowering plants and recognition of major plant families. Prerequisite(s): junior standing. (Offered Summer)

**890:107(g). Field Parasitology - 4 hrs.**

Ecology and life history of parasites, protozoans, helminths, arthropods; field and laboratory investigations including preparation, identification, and morphology of representative types and stages; general and comparative concepts of parasitology. Prerequisite(s): junior standing. (Variable)

**890:109(g). Freshwater Algae - 4 hrs.**

Structure and taxonomy of freshwater algae based on field-collected material. Emphasis on genus-level identifications, habitats; visited include lakes, fens, streams, and rivers; algal ecology. Prerequisite(s): junior standing. (Offered Summer)

**890:119(g). Evolution - 4 hrs.**

Mechanisms and patterns in microevolution and macroevolution. Field exercises emphasize studies of natural selection, adaptation, genetic variation, and population genetics of local plant and animal populations. Prerequisite(s): junior standing. (Variable)

**890:121(g). Plant Ecology - 4 hrs.**

Principles of plant population, community, and ecosystem ecology illustrated through studies of native vegetation in local prairies, wetlands, and forests. Group or individual projects. Prerequisite(s): junior standing. (Offered Summer)

**890:122(g). Prairie Ecology - 4 hrs.**

Basic patterns and underlying physical and biotic causes of both regional and local distributions of plants and animals of North American prairies; field and laboratory analyses and projects. Prerequisite(s): familiarity with basic principles in biological sciences and ecology; junior standing. (Offered Summer)

**890:124(g). Wetland Ecology - 4 hrs.**

Ecology, classification, creation, restoration, and management of wetlands. Field studies examine the composition, structure, and functions of local natural wetlands and restored prairie pothole wetlands. Individual or group projects. Prerequisite(s): junior standing. (Offered Summer)

**890:126(g). Ornithology - 4 hrs.**

The biology, ecology, and behavior of birds with emphasis on field studies of local avifauna. Group projects stress techniques of population analysis and methodology for population studies. Prerequisite(s): junior standing. (Offered Summer)

## 890 Iowa Lakeside Laboratory

### **890:127(g). Introduction to Insect Ecology - 4 hrs.**

Field and laboratory study of insects, their diversity, and life history. Emphasis on ecology and behavior. Prerequisite(s): junior standing. (Variable)

### **890:128(g). Fish Ecology - 4 hrs.**

Basic principles of fish interaction with the biotic and abiotic environment. Field methods, taxonomy, and biology of fish with emphasis on the fish fauna of northwestern Iowa. Prerequisite(s): junior standing. (Offered Summer)

### **890:129(g). Vertebrate Ecology and Evolution - 4 hrs.**

Field and laboratory study of representative vertebrates of northwestern Iowa. Observations and experimentation emphasize ecological histories by integrating concepts of functional morphology, behavioral ecology, and evolutionary biology. Prerequisite(s): junior standing. (Variable)

### **890:130(g). Natural History Workshop - 1-2 hrs.**

Offered as demand warrants. Five day-long, non-technical introductions to a specific aspect of the natural history of the upper Midwest or techniques for studying natural history. Prerequisite: junior standing. (Variable)

A. Amphibians and Reptiles

B. Birds and Birding

C. Nature Photography

D. Mushrooms and Other Fungi

E. Iowa's Trees and Forests

F. Fish Biology

G. Prairies

I. Common Insects

J. Aquatic Plants

K. Life in Rivers

L. Life in Lakes

M. Mosses and Liverworts

N. Natural History of Iowa Great Lakes Region

P. Field Archaeology

Q. Common Algae

S. Scuba Diving

T. Astronomy

U. Sketching Nature

### **890:131. Flora of the Iowa Great Lakes Region - 2 hrs.**

(Variable)

### **890:142(g). Watershed Hydrology and Surficial Processes - 4 hrs.**

Effects of geomorphology, soils, and land use on transport of water and materials (nutrients and contaminants) in watersheds. Fieldwork will emphasize investigations of the Iowa Great Lakes watershed. Prerequisite(s): four courses in the physical or biological sciences or engineering; junior standing. (Offered Summer)

### **890:144(g). Ecosystems of North America - 2-4 hrs.**

Extended field trip to study a particular type of ecosystem (prairie, coastal wetland, forest, alpine, coral reefs, etc.) or the ecosystems of a specific region (Rocky Mountains, Gulf Coast, Appalachian Mountains, Deserts of the Southwest, Central America, etc.). Prior to the field trip, there will be an orientation period and after each field trip a review and synthesis period. A field trip fee will be assessed to cover travel expenses. Prerequisite(s): general ecology course and consent of instructor; junior standing. (Offered Summer)

### **890:155(g). Freshwater Invertebrates - 4 hrs.**

Field-oriented introduction to the identification, life history, and ecology of common, free-living freshwater invertebrates of north-temperate lakes, rivers, and wetlands. Emphasis on the role of invertebrates in aquatic food chains and litter processing. Prerequisite(s): one or more ecology courses; junior standing. (Variable)

### **890:156(g). Advanced Field Ornithology - 2 hrs.**

Field study of birds of the upper Midwest; extended field trip to Minnesota and Wisconsin; individual or group project. Field trip fee. Prerequisite(s): junior standing. Corequisite(s): 890:126g. (Variable)

### **890:160(g). Restoration Ecology - 4 hrs.**

Ecological principles for the restoration of native ecosystems; establishment (site preparation, selection of seed mixes, and planting techniques) and management (fire, mowing, and weed control) of native vegetation; evaluation of restorations. Emphasis on the restoration of prairie and wetland vegetation. Prerequisite(s): a course in ecology; junior standing. (Offered Summer)

### **890:161(g). Introduction To GIS - 4 hrs.**

Descriptive and predictive GIS modeling techniques, spatial statistics, and map algebra. Application of GIS modeling techniques to environmental planning and resource management. Prerequisite(s): junior standing. (Offered Summer)

### **890:165(g). Behavioral Ecology - 4 hrs.**

Animal coloniality, courtship, territoriality, predator defense, habitat selection, foraging, mating systems, and parental care will be examined in the field in order to evaluate various ecological and evolutionary theories of animal behavior. Prerequisite(s): two courses in the biological sciences; junior standing. (Offered Summer)

### **890:166(g). Amphibians & Reptiles - 4 hrs.**

Ecology, behavior, and conservation biology of amphibians and reptiles. Emphasis on their anatomy and morphology, temperature and water regulation, locomotion, life history, reproduction, population and community ecology, and conservation. Prerequisite(s): two courses in the biological sciences; junior standing. (Offered Summer)

### **890:175(g). Soil Genesis and Landscape Relationships - 4 hrs.**

Relationships between soil formation, geomorphology, and environment. Soil description, classification, geography, mapping, and interpretation for land use. Prerequisite(s): junior standing. (Offered Summer)

### **890:178(g). Analysis of Environmental Data - 2 hrs.**

Provides students with training in the theory and application of a range of statistical techniques useful for the analysis of ecological and paleoecological data. Topics include data management, exploratory data analysis, regression analysis, direct and indirect ordination methods, classification techniques, transfer functions and the analysis of temporal data. Lectures and practical classes with hands-on-training. Directed towards advanced undergraduate, graduate, and working professionals in ecology and paleoecology. Prerequisite(s): an undergraduate course in statistics, understanding of basic concepts such as correlation and regression, and familiarity with PC-based software for data analysis. (Offered Summer)

### **890:193. Undergraduate Research - 1-4 hrs.**

Prerequisite(s): junior standing; consent of instructor. (Variable)

### **890:198. Undergraduate Independent Study - 1-4 hrs.**

Prerequisite(s): junior standing; consent of instructor. (Variable)

### **890:215. Field Mycology - 4 hrs.**

Identification and classification of the common fungi; techniques for identification, preservation, and culture practiced with members of the various fungi groups. (Offered Summer)

### **890:217. Ecology and Systematics of Diatoms - 4 hrs.**

Field and laboratory study of freshwater diatoms; techniques in collection, preparation, and identification of diatom samples; study of environmental factors affecting growth, distribution, and taxonomic characters; project design and execution, including construction of reference and voucher collections and data organization and analysis. (Offered Summer)

### **890:240. Natural History Workshop - 1-3 hrs.**

Offered as demand warrants. Graduate workshop on some aspect of the natural history of the Upper Midwest or on techniques for studying natural history. Prerequisite(s): consent of instructor. (Variable)



**890:263. Conservation Biology - 4 hrs.**

Population- and community-level examination of factors influencing the viability of plant and animal populations from both demographic and genetic perspectives; assessment of biodiversity; and design and management of preserves. Prerequisite(s): 890:031. (Offered Summer)

**890:286. Studies in \_\_\_\_\_ - 1-4 hrs.**

Prerequisite(s): graduate standing and consent of instructor. (Variable)

**890:291. Graduate Internships - 1-5 hrs.**

Placement with county conservation boards, camps, parks, schools, etc., for experience as interpreters, rangers, technicians, and teachers. Prerequisite(s): consent of instructor. (Variable)

**890:299. Research - 1-4 hrs.**

Prerequisite(s): consent of instructor. (Variable)

**900 Social Science****900:020. Women, Men, and Society - 3 hrs.**

Examination of key issues of gender. Attention to variety of topics including ethical issues and gender roles, gender-role stereotyping, male and female roles, sexuality, gender roles in non-western and minority cultures, and gender roles in United States institutions (e.g., in the nuclear family, religion, and the work place). (Offered Fall and Spring)

**900:023. American Civilization - 3 hrs.**

Interdisciplinary study of American civilization as a developing society, culture, and nation over four centuries. Through an integration of history, literature and the arts, major themes and their interrelationships within the American experience will be identified and analyzed. Liberal Arts Core credit for all students. (Variable)

**900:041. Social Welfare: A World View - 3 hrs.**

Comparative study of social welfare (social insurance, public welfare, charity and philanthropy, social services, and mutual aid) in the United States, and selected nations from five regions of the world as defined by the International Congress of Schools of Social Work (African, Asian, European, Latin American, and North American regions). (*Same as 450:041*) (Offered Fall and Spring)

**900:045. American Racial and Ethnic Minorities - 3 hrs.**

Survey of several American minorities, including Hispanics, Blacks, Asians, and Native Americans. Multi-disciplinary study of these groups with particular emphasis on geographic origins, linguistic traditions, and current modes of economic subsistence. Introduction to folkways and mores of each group. (*Same as 450:045 and 980:045*) (Offered Fall and Spring)

**900:080. Conflict and Social Reconstruction - 3 hrs.**

Critical analysis of conflict in social relations. Employs systems framework to examine stress, alienation, reciprocity, social support and social reconstructions. Exploration of interpersonal, organizational and community conflict with emphasis on race, gender, and class. Includes simulations and small group activities. (Variable)

**900:090. Children and Youth: Issues and Controversies - 3 hrs.**

Use of social scientific theoretical frameworks and data to examine causes, consequences, and policy implications of issues and controversies affecting children and youth. (Variable)

**900:135. Canadian Studies - 3 hrs.**

Survey of the physical landscape, history, demographic patterns, cultures, and political/economic systems of Canada, including detailed examination of the country's regional geography and the challenges facing the nation's future. (*Same as 970:142*) (Variable)

**900:145(g). Seminar in American Ethnic Studies - 3 hrs.**

Concluding course for the American Ethnic Studies minor, bringing together various components of the minor's core curriculum and addressing theories and practices affecting study of ethnicity in the U.S. Prerequisite(s): 450:045 or 900:045 or 980:045; completion of 18 hours

in the minor; senior standing or consent of Director of American Ethnic Studies program. (Variable)

**900:150. Senior Seminar in Women's and Gender Studies - 1 hr.**

Students synthesize and extend knowledge gained from previous course work and apply it to their major in a professional portfolio. Prerequisite(s): a declared Women's and Gender Studies minor; senior standing; or consent of instructor. (Offered Spring)

**900:190. The Teaching of the Social Studies - 3 hrs.**

Ordinarily should precede student teaching. Prerequisite(s): 12 hours in social science; senior standing. Corequisite(s): 900:191. (Variable)

**900:191. Field Experience: Teaching Social Studies - 1 hr.**

Ordinarily precedes student teaching. Direct experiences in teaching 6-12 social studies. Focus on lesson and unit planning, classroom management, and teaching methods. Bi-weekly seminar. Offered on credit/no credit basis only. Prerequisite(s): 12 hours in social science; formal application; senior standing; consent of instructor. Corequisite(s): 900:190. (Variable)

**900:195. Internship in Women's and Gender Studies - 1-3 hrs.**

Experiential application of theory and scholarship. Responsibilities determined by faculty advisor, on-site supervisor, and student, according to organizational needs and career goals. Prerequisite(s): Women's and Gender Studies minor with completion of two or more core courses; junior standing or consent of instructor. (Variable)

**900:199(g). Study Tour - 1-8 hrs.**

Directed program of study abroad. Programs to Europe, Asia, Latin America, Middle East, and other world areas. Study of social, historical, economic, and/or political characteristics of other countries and cultures. Prerequisite(s): junior standing. (Variable)

**900:280. Social Science Seminar - 3 hrs.**

May be repeated for maximum of 6 hours. Prerequisite(s): consent of department. (Variable)

**900:297. Practicum.**

(Variable)

**900:299. Research.**

(Variable)

**920 Economics****920:020. Introduction to Decision Techniques - 3 hrs.**

Quantitative and qualitative aspects of problem solving and decision making. Structuring and basics of decision making, applications of probability, functional relationships, marginal analysis, and linear programming. Emphasis on model formulation and interpretation of results. May not be used for credit on the Economics major or minor or the Social Science major or minor. Prerequisite(s): 800:072 or 800:092 or equivalent. (Offered Fall, Spring, and Summer)

**920:024. Introduction to Economics - 3 hrs.**

Overview of economics, including how a market system functions and how national income, output, and employment are determined. Primary focus (though not exclusively) on U.S. economy. No credit for students who have credit or are concurrently enrolled in 920:053 or 920:054. May not be used for credit on major or minor. (Offered Fall, Spring, and Summer)

**920:053. Principles of Macro-Economics - 3 hrs.**

Introduction to the economizing problem and economic institutions. National income determination, monetary and fiscal policy, and global economic issues. (Offered Fall, Spring, and Summer)

**920:054. Principles of Micro-Economics - 3 hrs.**

Study of producers and consumers in product and input markets. Applications of microeconomic theories to issues such as income distributions, the environment, agriculture, labor markets, government policies toward business, and others. Prerequisite(s): 920:053. (Offered Fall, Spring, and Summer)

## 920 Economics

### **920:070. Business Statistics - 3 hrs.**

Application and interpretation of probability and statistics as applied to business problems. Descriptive statistics, hypothesis testing, linear regression, and correlation. May not be used for credit on the Economics major or minor or the Social Science major or minor. Prerequisite(s): 800:072 or 800:092 or equivalent. (Offered Fall, Spring, and Summer)

### **920:103. Intermediate Macro-Economic Theory - 3 hrs.**

Intermediate level macro-economics. Determinants of aggregate demand, national product and employment; and macro-economics objectives and policies. Prerequisite(s): 920:053; 920:054. (Offered Fall and Spring)

### **920:104. Intermediate Micro-Economic Theory - 3 hrs.**

Intermediate level micro-economics. Theory of consumer choice, business firm, and resource allocation. Prerequisite(s): 920:053; 920:054. (Offered Fall and Spring)

### **920:113. Money and Banking - 3 hrs.**

Money, commercial banking, the Federal Reserve System, and monetary policy. Prerequisite(s): 920:053; 920:054. (Offered Fall and Spring)

### **920:116(g). Economics of Labor Markets - 3 hrs.**

An investigation into the market forces affecting the supply of and demand for labor and the determination of wages in the U.S. Discussion topics may include income maintenance programs, health and safety in industry, income inequality, human capital formation and/or labor mobility. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Fall)

### **920:117(g). Public Finance - 3 hrs.**

Taxation and government expenditures; fiscal policy. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Spring)

### **920:120(g). Economics of Natural Resources - 3 hrs.**

Allocation of non-renewable and renewable resources over time; energy resources, minerals, water, and fisheries, along with the concept of growth in finite environment. Prerequisite(s): 920:053; 920:054; junior standing. (Variable)

### **920:123(g). Environmental Economics - 3 hrs.**

Achieving allocative efficiency and cost-effectiveness when setting environmental policy. Modeling environmental quality as a public good and pollution as an economic problem. Assessing the command-and-control approach versus the market approach to environmental problem solving and policy. Exploring historical and current policies on air quality, water quality, solid waste/toxic substance management, and/or global environmental management. Prerequisite(s): 920:053; 920:054; junior standing. (Variable)

### **920:125(g). Cost-Benefit Analysis - 3 hrs.**

Impact of public projects on resource allocation and social well being. Meaning and interpretation of Net Present Value (NPV). Problems encountered in quantifying various components of NPV and merits of alternative solutions. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Fall)

### **920:128(g). Law and Economics - 3 hrs.**

Analysis of the influence of legal rules and institutions on the economic behaviors of individuals. Examination of the principles of economics as they relate to private and public law, with special emphasis on economic efficiency and equity. Applications from civil procedure, criminal, contract, and tort law. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Spring)

### **920:135(g). The Organization of American Industry - 3 hrs.**

Structure, conduct, and performance of firms, industries, and market. Policies to maintain competition. Prerequisite(s): 920:053; 920:054; junior standing. (Variable)

### **920:136(g). International Economics - 3 hrs.**

International trade theory, trade strategies, economic unions, and factor movements. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Odd Falls)

### **920:143(g). Economic Development - 3 hrs.**

Characteristics of developing nations, causes of underdevelopment, de-

velopment theories, and development strategies. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Odd Springs)

### **920:148(g). Urban and Regional Economics - 3 hrs.**

Theory of location and regional development; factors influencing growth and location of production, location of households, city location and urban hierarchies, and land use patterns; measures and change in regional economic activity; and public policy issues in regional and urban evolution. Research methods including economic base, employment multiplier, location quotient, and threshold analyses. Prerequisite(s): 920:053 and 920:054, or consent of instructor; junior standing. (Offered Fall)

### **920:160(g). Managerial Economics - 3 hrs.**

Application of economic theory and methods to business and administrative decision making. Prerequisite(s): 920:053; 920:054; 920:104 or consent of instructor; junior standing. (Offered Fall)

### **920:168(g). Mathematical Economics - 3 hrs.**

Application of mathematics to economics with an emphasis on matrices and introductory calculus. Prerequisite(s): 920:053 and 920:054, or consent of instructor; junior standing. (Offered Even Falls)

### **920:169(g). Introduction to Econometrics - 3 hrs.**

Econometric techniques and the development of statistical techniques unique to the economics; econometric relationships derived in single and multivariate linear and non-linear regression analysis; use of statistical inference in econometric investigation with applications to classical works of economic topics. Prerequisite(s): 800:072; 920:053 and 920:054, or consent of instructor; junior standing. (Offered Spring)

### **920:170(g). History of Economic Thought - 3 hrs.**

Development of economic theory from early Greeks to John Maynard Keynes. Special emphasis given to Adam Smith, Karl Marx, and Thorstein Veblen. Prerequisite(s): 920:053; 920:054; junior standing. (Variable)

### **920:175(g). International Financial Economics - 3 hrs.**

International financial theories and analysis of balance of payments, alternative exchange rate regimes, and capital movements. Prerequisite(s): 920:053; 920:054; junior standing. (Offered Even Falls)

### **920:177. Internship in Community Economic Development - 1-3 hrs.**

Practical experience in a business, industry, or government agency. May be repeated for maximum of 3 hours. Does not count toward the Economics major; Prerequisite(s): 920:053; 920:054; 920:125; 920:148; junior standing or consent of department head. (Offered Fall, Spring, and Summer)

### **920:179. Cooperative Education in Economics - 1-3 hrs.**

Compensated work experience in conjunction with an academic project conducted under faculty guidance. University elective credit is given on a graded basis. Prerequisite(s): 920:103; 920:104; cumulative UNI GPA of 3.00 or higher required prior to application; consent of department head. (Offered Fall, Spring, and Summer)

### **920:181(g). Directed Research in Economics - 3 hrs.**

Students demonstrate their grasp of economic theory and their writing abilities. Prerequisite(s): 920:053; 920:054; 920:103; 920:104; senior standing; Economics major. (Offered Spring)

### **920:260. Managerial Economics - 3 hrs.**

Application of economic theory and methods to business and administrative decision making. Prerequisite(s): 920:053; 920:054; consent of MBA Director. (Offered Fall)

### **920:280. Topics in Economics - 1-3 hrs.**

Topics listed in Schedule of Classes. May be repeated for maximum of 6 hours. Prerequisite(s): consent of MBA Director. (Variable)

### **920:285. Individual Readings - 1-3 hrs.**

Prerequisite(s): consent of MBA Director and department head. (Offered Fall, Spring, and Summer)

### **920:299. Research. - 1-6 hrs.**

Prerequisite(s): consent of MBA Director and department head. (Offered Fall, Spring, and Summer)

## 94\_ Political Science

### 940 (General Politics)

#### 940:010. Scope and Methods of Political Science - 3 hrs.

Introduction to qualitative and quantitative research methods in political science. (Offered Fall and Spring)

#### 940:020. Contemporary Political Problems - 3 hrs.

Analysis of selected contemporary political issues. Focus may be on local, state, national, or international level. (Variable)

#### 940:111. Introduction to Quantitative Methods in Political Science - 3 hrs.

Introduction to basic statistical methods appropriate to data analysis in political science and public administration. (Offered Fall)

#### 940:176(g). Research Methods in Public Administration - 3 hrs.

Applications of statistical and computer analysis techniques to problems of public management. Prerequisite(s): junior standing. (Variable)

#### 940:181. Internship in Politics - 4-8 hrs.

Student serves as intern with government official or in public or private agency: (1) Federal; (2) State; (3) Local; (4) Intergovernmental; (5) Legal; (6) Interest Group; (7) International; and (8) Electoral. Prerequisite(s): 940:010; 15 hours of political science; Political Science, Political Communication, or Public Administration major; junior standing or consent of department. (Offered Fall, Spring, and Summer)

#### 940:184. Senior Seminar in Political Science - 3 hrs.

Examination of specific topics through application of theories and methods of political science analysis. Research papers required. Prerequisite(s): 24 credit hours of Political Science. (Offered Fall and Spring)

#### 940:188. Seminar in Political Science - 3 hrs.

Undergraduate seminar covering selected advanced topics in political science. Prerequisite(s): junior standing; completion of a minimum of 12 hours in major. (Variable)

#### 940:189(g). Readings in Political Science - 1-3 hrs.

May be repeated only with consent of department. Prerequisite(s): 12 hours in political science; junior standing; consent of department. (Offered Fall, Spring, and Summer)

#### 940:198. Independent Study.

(Offered Fall, Spring, and Summer)

#### 940:285. Individual Readings - 1-3 hrs.

May be repeated. (Offered Fall, Spring, and Summer)

#### 940:299. Research.

(Offered Fall, Spring, and Summer)

### 941 (Political Theory)

#### 941:050. Introduction to Political Theory: Freedom, Justice and Power - 3 hrs.

Introductory course that explores some of the ideals that guide political practice, addressing questions such as: How do we know what is just, and how can justice be achieved? What does it mean to be free? What is the nature of power? Can we avoid it? If not, what can be done to control it? (Offered Fall and Spring)

#### 941:122. Theories of Democracy - 3 hrs.

Philosophical foundations of various forms of democracy, including ancient Athens' direct democracy, the liberal representative democracy, and radical democratic movements. Considers critiques of and threats to democracy. (Variable)

#### 941:129. American Political Thought - 3 hrs.

Founding theories of American political practice (Jefferson, Madison, and others); analysis of fundamental American political ideals including rights, freedom, and equality. (Variable)

#### 941:160. Classical Political Theory - 3 hrs.

The nature of justice, arguments for and against democracy, the founda-

tions of political knowledge, and the nature of political communities, as understood by the thinkers of classical Greece. (Variable)

#### 941:161. Modern Political Theory - 3 hrs.

Western political thought from Machiavelli to Nietzsche, including the philosophical foundations for the American system of government (liberal and civic republican thought). (Variable)

#### 941:188. Seminar in Political Theory - 3 hrs.

In-depth examination of a particular topic in political theory, e.g. globalization, race, sex and gender. Prerequisite(s): one other political theory (941) class; junior standing or consent of instructor. (Variable)

### 942 (American Politics)

#### 942:014. Introduction to American Politics - 3 hrs.

Processes and functions of American government in relation to concepts of American democracy and to practices of other governments. (Offered Fall and Spring)

#### 942:048. Introduction to Public Administration - 3 hrs.

Role of bureaucracy in policy making and implementation in a representative government. Theories, concepts, and selected case studies in public administration. (Offered Fall and Spring)

#### 942:112. Campaigns and Elections - 3 hrs.

Systematic examination of structure and functions of modern electoral campaigns for national, state, and local offices. (Offered Even Falls)

#### 942:131. American State Politics - 3 hrs.

Analysis of organization, functions, and operation of state and local governments. Prerequisite(s): sophomore standing or consent of instructor. (Offered Fall)

#### 942:132. Community Politics - 3 hrs.

Introduction to structure, functions, and policies of American local government in context of economic, social, and intergovernmental forces. Prerequisite(s): sophomore standing or consent of instructor. (Offered Spring)

#### 942:134. Legislative Politics - 3 hrs.

Introduction to the legislative process emphasizing the United States Congress. Focus on how Congress makes policy, and legislators' relations with constituents, parties, interest groups and the executive and judicial branches. Prerequisite(s): 942:014. (Offered Fall)

#### 942:141. Constitutional Law - 3 hrs.

Analysis of U.S. Supreme Court decisions and changes in doctrine over time and the political forces affecting these changes. Emphasis on the powers and constraints of the federal government, separation of powers, and federalism. Prerequisite(s): 942:014 or 942:146 or 942:147. (Offered Fall)

#### 942:142(g). Problems in Juvenile and Family Law - 3 hrs.

Aspects of juvenile and family law; how legislature and courts have developed juvenile and family law, including marriage and divorce, adoption, and competency of minors. Prerequisite(s): junior standing. (Offered Fall and Spring)

#### 942:143(g). Citizen Participation and Civic Engagement - 3 hrs.

Introduces the key issues and problems affecting citizen participation and engagement at the community and national levels. Prerequisite(s): junior standing. (Offered Spring)

#### 942:144. Civil Rights and Liberties - 3 hrs.

Examines the Supreme Court's role in establishing and protecting individual rights and liberties from government intrusion. Emphasis on the 14th Amendment of the Constitution. Includes issues of free speech, freedom of religion, discrimination, and privacy. (Offered Spring)

#### 942:146. Law and Politics - 3 hrs.

Theoretical and empirical examination of the role of appellate courts, especially the U.S. Supreme Court, within the American political system. Examination of theories of judicial decision making, the influence of

## **942 (American Politics)/943 (International Relations)/944 (Comparative Politics)**

politics on law and judges, and the impact of court decisions on public policy. (Offered Spring)

### **942:147. Law and the Courts - 3 hrs.**

Examination of federal and state trial courts, both civil and criminal. Exploration of normative and empirical theories about the nature of the legal system and the roles of judges, lawyers, and litigants. Addresses political issues related to the civil and criminal justice systems. (Offered Fall)

### **942:150. Political Opinion and Voting Behavior - 3 hrs.**

Theoretical and empirical analyses of public opinion, political specialization, and political attitudes and behavior, with emphasis on voting behavior. (Offered Spring)

### **942:151. Modern Presidency - 3 hrs.**

Examination of constitutional, electoral, administrative, and political aspects of the modern American presidency as they have evolved from FDR to the present. Prerequisite(s): 942:014. (Offered Spring)

### **942:153(g). Public Organizations - 3 hrs.**

Theories and models of internal dynamics of public organizations and their role in the political milieu; characteristics and operation of American public organizations. Prerequisite(s): 942:014 or 942:048; junior standing. (Offered Fall)

### **942:155(g). Environmental Policy Making - 3 hrs.**

Analysis of environmental conditions, policies, policy-making processes, and factors influencing policy in the United States, at the national, regional, state, and local levels. Prerequisite(s): junior standing. (Offered Odd Springs)

### **942:166(g). Political Parties and Interest Groups - 3 hrs.**

Rise of interest groups and decline of parties in American political system; role of interest groups in policy process; organization and maintenance of political parties and interest groups. Prerequisite(s): 942:014; junior standing. (Variable)

### **942:171(g). Urban Development and Administration - 3 hrs.**

Theoretical perspectives on the processes of urban development and problems of urban administration and policy making. Prerequisite(s): 942:014; 942:132; junior standing. (Offered Even Falls)

### **942:172. Public Budgeting - 3 hrs.**

Historical development of current budgeting practices; politics of budgetary process at federal, state, and local levels; current methods of budgeting for public agencies, focusing on integration of budgeting into program planning. Prerequisite(s): 942:014; 942:048. (Offered Spring)

### **942:173(g). The Public Policy Process - 3 hrs.**

Theories and models of policy process in the United States, including agenda setting, formulation, adoption, implementation, and evaluation. Application of theories and models to case studies of major policy issues. Prerequisite(s): 942:014; 942:048; junior standing. (Offered Fall)

### **942:174. Public Personnel Administration - 3 hrs.**

Development of current government personnel practices; contemporary issues in personnel administration; techniques of job analysis; recruitment and selection of employees; and problems of supervision and evaluation. Prerequisite(s): 942:014; 942:048. (Offered Spring)

### **942:188(g). Seminar in Public Administration - 3 hrs.**

Advanced topics in public administration, such as essential and nonessential service delivery, fiscal administration, and community development. Introduces students to issues not covered in other public administration courses. Prerequisite(s): 942:048; junior standing. (Offered Spring)

## **943 (International Relations)**

### **943:024. International Relations - 3 hrs.**

Survey of various approaches to international relations with special emphasis on application to historical and contemporary cases. (Offered Fall and Spring)

### **943:119(g). Politics of the Global Economy - 3 hrs.**

Analysis of how the pursuit of power and the pursuit of wealth interact in international relations. Emphasis on trade policy, monetary and financial policies, economic development, and the politics of globalization since 1945. Prerequisite(s): 943:024; junior standing. (Offered Spring)

### **943:120. War and Peace - 3 hrs.**

Survey of the nature and causes of war, and the methods states use to achieve security. Examination of such issues as arms races, alliances, military technology, and military strategy and their relation to the politics of international relations. Analysis of methods for resolving conflicts and promoting peace. (Offered Fall)

### **943:125(g). North-South Relations - 3 hrs.**

Analysis of political, social, and economic disparities and mutual interdependence between developing and developed nations. Examination of need for a new international economic order, and issues of energy, food, raw materials, population, and transfer of technology. Prerequisite(s): junior standing. (Offered Even Falls)

### **943:126. Human Rights - 3 hrs.**

Examination of the origins and development of the concept of Human Rights. Review of the major challenges to global human rights, including genocide, racism, political repression, national/religion oppression, and gender discrimination. Emphasis on the international institutions, norms, and policies of states and non-state actors to define and promote human rights. (Variable)

### **943:127. United States Foreign Policy - 3 hrs.**

Historical and theoretical examination of the individual, domestic, and systemic factors which affect formulation of United States foreign policy. (Offered Spring)

### **943:129. International Diplomacy and Negotiation - 3 hrs.**

Examination of causes of mistrust between countries, the use of coercive diplomacy to advance national interests and international negotiation. (Variable)

### **943:137(g). Environmental Policy Making in a Comparative Perspective - 3 hrs.**

Analytical discussion of the environmental policy-making process in a comparative perspective. Prerequisite(s): junior standing. (Variable)

### **943:143. International Law - 3 hrs.**

Survey of international law from its development to contemporary issues. (Variable)

### **943:145. International Organizations - 3 hrs.**

Description of international governmental and nongovernmental organizations, and analysis of their roles in international politics. (Offered Odd Falls)

## **944 (Comparative Politics)**

### **944:040. Comparative Politics - 3 hrs.**

Examination of theory, methods, and problems of comparative politics with emphasis on cross-regional analysis. Use of case studies to look at such issues as political culture, parties, participation, dictatorship and democracy, economic policies and class, and racial, ethnic or religious conflict. (Offered Fall and Spring)

### **944:121. Terrorism - 3 hrs.**

Examination of terrorism as a political phenomenon. Focus on terrorism-related theme with examination of both theoretical and policy issues related to the history, psychology, and motives of terrorism using cases from around the world. (Variable)

### **944:123. Nationalism - 3 hrs.**

Analysis of causes, forms, and consequences of nationalist movements. Consideration of experiences of nation-states and multi-national states. Evaluation of major theoretical approaches to study of nationalist movements and application to several specific cases. (Offered Spring)

**944:135. Western European Democracies - 3 hrs.**

Political institutions, processes, and policies of Western European Democracies. Emphasis on United Kingdom, France, Germany, and Italy. Development and prospects of European Community. (Variable)

**944:162. Politics of East Asia - 3 hrs.**

Comparative analysis of major East Asian countries; examination of state and nation-building processes, political institutions, and processes and policies, with emphasis on China and Japan. (Variable)

**944:164. Russian and East European Politics - 3 hrs.**

Analysis of regimes and regime changes in Russia and Eastern Europe. Examination of institutions, contemporary issues, and processes in comparative context. (Variable)

**944:165. African Politics - 3 hrs.**

Examination of African politics from a political economy perspective. (Variable)

**944:167. Latin American Politics - 3 hrs.**

Analysis of democracy, authoritarianism, economic development and social movements in the region. Emphasis on Mexico, Brazil, Argentina, Colombia, Peru, and Cuba. Examination of influence of U.S. hegemony and the prospects for economic integration. (Variable)

**950 Public Policy****950:205. Research Seminar in Public Policy - 1 hr.**

Seminar on questions of public policy analysis. Topics vary. May be repeated. Prerequisite(s): admission to the graduate program in Public Policy or consent of Director of Graduate Program in Public Policy. (Offered Fall and Spring)

**950:208. Applied Research and Bibliography in Public Policy - 3 hrs.**

Exploration of established research and available sources in participant's focus area in public policy. Successful completion satisfies program writing requirement. Prerequisite(s): 920:117; 942:153; 942:173; 950:275; 960:225. (Offered Fall)

**950:220. Public Policy, Advocacy and Public Funding - 2 hrs.**

Policy context of philanthropy and nonprofit development; the role of nonprofits in policy development and advocacy. Prerequisite(s): admission into the Philanthropy and Nonprofit Development graduate program. (Variable)

**950:260. Policy Analysis: Methods and Approaches - 3 hrs.**

Research methods and approaches for analyzing and evaluating public policy choices and impacts. Understanding the context and purposes of policy analysis. Defining policy research questions and developing research designs. Selecting and applying appropriate research methods to policy problems. Prerequisite(s): enrollment requires admission to the Graduate Program in Public Policy, or consent of Director of Graduate Program in Public Policy. (Offered Fall)

**950:275. Quantitative Methods for Politics and Policy - 3 hrs.**

Statistical methods appropriate to study of political science and public policy, including hypothesis testing, nominal and ordinal scale measures of association, bivariate regression/correlation, and multiple regression. Prerequisite(s): 940:111, 980:080, or consent of instructor. (Offered Spring)

**950:281. Internship in Public Policy - 4 hrs.**

Field experience for students enrolled in Master of Public Policy degree program. Students may be given credit for extensive career experience at the discretion of the Program Director. Prerequisite(s): 942:173; 950:205; 950:275. (Offered Fall, Spring, and Summer)

**950:285. Readings in Public Policy - 1-3 hrs.**

Registration requires written consent of Program Director. (Offered Fall, Spring, and Summer)

**96\_ History****960 (Historical Study/Thematic/Graduate)****960:010. Introduction to the Study of History - 3 hrs.**

Introduction to nature and use of history, to historiography, and to basic methods of historical research. Required of all History majors and must be taken immediately after major is declared. Corequisite(s): 960:011. (Offered Fall and Spring)

**960:011. Field Experience: Public History - 1 hr.**

Students spend 15 hours working on a public history project in a local institution. This seminar provides opportunities for orientation, discussion, and introduction to professions related to the major. Prerequisite(s): declared History major. Corequisite(s): 960:010. (Offered Fall and Spring)

**960:106(g). Applying History: The Public Alternative - 3 hrs.**

Exploration of employment possibilities other than teaching for those with degrees in history. Examination of skills required to pursue a career in public history and a variety of issues that public historians confront. Prerequisite(s): junior standing. (Offered Fall)

**960:125(g). Introduction to Museum Studies - 3 hrs.**

Exploration of history, public mission, working environment, and ethical issues of museums. Discussion of practical skills and theoretical issues of museum studies, exposing students to broad range of museum types and career opportunities. Prerequisite(s): junior standing. (Same as 990:125g) (Offered Even Springs)

**960:132(g). Internship in Historical Studies - 1-3 hrs.**

Individualized study and experience in public history settings. Work projects defined by instructor, site supervisor, and student. Attendance at weekly forum mandatory, and term paper reflective of the experience is required. May be repeated for a maximum of 6 hours credit. Prerequisite(s): Iowa History course (recommended); 960:106; junior standing; consent of instructor. (Offered Fall and Spring)

**960:189. Readings in History - 1-3 hrs.**

Student will choose one of the following areas: (1) Ancient; (2) Medieval; (3) English; (4) French; (5) German; (6) Russian; (7) United States; (8) Latin American; or (9) Asian (India, China, and Japan). Prerequisite(s): consent of department head; for the field of U.S. History, 9 semester hours in U.S. History; for each of the other fields, 9 hours in history other than U.S., which must include 3 hours related to the particular field to be studied. (Offered Fall, Spring, and Summer)

**960:192. Junior-Senior Seminar - 3 hrs.**

May be repeated on different topics. Prerequisite(s): for History majors: 960:010; junior standing. For non-history majors: consent of instructor. (Offered Fall and Spring)

**960:198. Independent Study.**

(Offered Fall, Spring, and Summer)

**960:225. History and U.S. Public Policy - 3 hrs.**

Use of history in policymaking; historical development of public policy in a specific area. (Offered Spring)

**960:280. Seminar in History - 3 hrs.**

Areas listed in Schedule of Classes. (Offered Fall and Spring)

**960:285. Individual Readings - 1-3 hrs.**

May be repeated. Prerequisite(s): consent of department head. (Offered Fall and Spring)

**960:289. Seminar in United States Historiography - 3 hrs.**

Seminar on major schools of interpretation of the American past, and specific examination of historiographical development of selected topics in American history. (Offered Spring)

**960:290. Historical Methods - 3 hrs.**

Investigation of problems confronting the historian and analysis of methods and techniques employed. (Offered Fall)

**960:297. Practicum - 2 hrs.**

(Offered Fall, Spring, and Summer)

**960:299. Research - 3-6 hrs.**

Thesis research and preparation. (Offered Fall, Spring, and Summer)

**961 (United States History)**

**961:014. United States History to 1877 - 3 hrs.**

Events, factors, and personalities which shaped social, economic, and political development of the United States from settlement to end of Reconstruction. (Offered Fall and Spring)

**961:015. United States History since 1877 - 3 hrs.**

End of Reconstruction period to present, including economic, diplomatic, intellectual, political, and social factors. (Offered Fall and Spring)

**961:102(g). History of Technology in America - 3 hrs.**

Examination of the nature, impact, and consequences of American technology - both at work and at home, in the city and in the country. Prerequisite(s): junior standing. (Offered Even Springs)

**961:116(g). Recent United States History - 3 hrs.**

History of the American people since 1960 with emphasis on domestic affairs. Prerequisite(s): junior standing. (Offered Spring)

**961:120(g). Popular Culture in the United States - 3 hrs.**

Exploration of relationships between expressions of popular culture and the development of American values, political ideologies, and unconscious yearnings. Includes popular music, celebrities, literature, art, design, film, and various forms of mass media. Prerequisite(s): junior standing. (Offered Spring)

**961:122(g). African-American History - 3 hrs.**

History of black Americans from African background into 1980s, with emphasis on period since end of slavery. Prerequisite(s): junior standing. (Offered Fall)

**961:124(g). The City in United States History - 3 hrs.**

Introduction to urban history; functions, shapes, and dynamics of the city in the American experience from 17th century to present with emphasis on metropolis of the past half century. Prerequisite(s): junior standing. (Offered Odd Springs)

**961:130(g). History of Iowa - 3 hrs.**

Social, political, and economic developments in Iowa from prehistoric times to present. Prerequisite(s): junior standing. (Offered Spring)

**961:131(g). U.S. History from 1929 to 1960 - 3 hrs.**

U.S. history from the Great Crash through the Eisenhower Era, emphasizing the Great Depression and New Deal of 1930s, World War II at home and abroad in the 1940s, and postwar issues including the Cold War and economic prosperity. Prerequisite(s): junior standing. (Offered Fall)

**961:134(g). United States Economic History - 3 hrs.**

Efforts of the people to raise standard of living, their means of livelihood, and development of national economy. Exploration of theory of economic growth. Prerequisite(s): junior standing. (Variable)

**961:135(g). Indians in American History - 3 hrs.**

Survey of the North American Indian experience over four centuries, with emphasis on the 19th and 20th centuries. Focus on Native response to European colonialism, removal, allotment, termination, revitalization, urbanization, Red Power, and pan-Indian movements. Prerequisite(s): junior standing. (Offered Spring)

**961:136(g). American Colonial History - 3 hrs.**

17th- and 18th-century America; development of colonial societies in the New World and American Revolution era. Prerequisite(s): junior standing. (Offered Fall)

**961:137(g). From Jefferson to Jackson - 3 hrs.**

Political, economic, and social development of United States in years between American Revolution and end of Jacksonian era. Prerequisite(s): junior standing. (Variable)

**961:139(g). Civil War and Reconstruction - 3 hrs.**

Causes of the Civil War, nature of the conflict, and short- and long-range consequences of the war. Prerequisite(s): junior standing. (Offered Fall)

**961:140(g). History of the West - 3 hrs.**

Westward movement of the people, from the Atlantic to Pacific; impact of over two centuries of frontier experience on the course of the nation's history and in shaping of "American" character. Prerequisite(s): junior standing. (Offered Fall)

**961:141(g). The South in United States History - 3 hrs.**

Traces the southern experience from colonization and settlement through the Civil War, Reconstruction, and late 19th- and 20th-century racial and political adjustments. Emphasis on post-Reconstruction period and role of blacks in shaping southern society. Prerequisite(s): junior standing. (Offered Odd Springs)

**961:142(g). United States Constitutional History - 3 hrs.**

Relates individual rights, political-socioeconomic issues, and rivalry among the Presidency-Congress-Supreme Court to development of U.S. Constitution. Prerequisite(s): junior standing. (Offered Fall)

**961:143(g). United States Labor History - 3 hrs.**

Survey of the experiences and meanings of work in the United States from the period of early industrialization to the present, with a focus on common workers, labor leaders, unions, and the ways the American definition of "worker" has intersected with ideologies of race, class, and gender. Prerequisite(s): junior standing. (Offered Fall)

**961:144(g). History of American Thought - 3 hrs.**

Historical examination of principal idea-systems which shaped the intellectual profile of American civilization. Prerequisite(s): junior standing. (Offered Odd Springs)

**961:145(g). Religion in America - 3 hrs.**

Investigation of religious movements and beliefs from colonial times to present. 640:024 or 650:021 recommended to precede this course. Prerequisite(s): junior standing. (Same as 640:117g) (Offered Odd Springs)

**961:146(g). United States Women's History - 3 hrs.**

Survey of social, cultural, and economic roles of women in the United States from founding to present, with some comparative analysis of women's roles in other areas of the world. Prerequisite(s): junior standing. (Offered Fall)

**961:147(g). Foundations of Modern America: The United States, 1877-1929 - 3 hrs.**

Description and analysis of dramatic social, cultural, economic, and political changes occurring in the U.S. between the close of Reconstruction and the beginning of the Great Depression. Prerequisite(s): junior standing. (Offered Even Falls)

**961:150(g). Society and Culture in the United States - 3 hrs.**

Description and analysis of the development of and changes in community, family, social stratification, nature of reform, morality, uses of leisure time, and attitudes toward science and religion in 19th and 20th centuries. Prerequisite(s): junior standing. (Offered Odd Falls)

**962 (Europe to ca. 1700)**

**962:101(g). History of Ancient Greece - 3 hrs.**

Archaeology of the Aegean and the Minoan-Mycenaean civilization; Homeric period, classical civilization of Greece to Alexander the Great, and the Hellenistic Age; advent of the Romans. Prerequisite(s): junior standing. (Offered Odd Falls)

**962:103(g). History of Ancient Rome - 3 hrs.**

Roman Republic, expansion of Roman rule, Roman Empire, decline and fall of the empire in 5th century A.D. Comparison of the Romans as people with modern Americans. Prerequisite(s): junior standing. (Offered Even Springs)

**962:123(g). History of Classical Civilization - 3 hrs.**

Cultural survey of the Greco-Roman world from the eighth century B.C. to the fifth century A.D. Subject matter includes elite culture, such as literature, philosophy, and religion, as well as aspects of everyday life, such as clothing, food and drink, and entertainment. Prerequisite(s): junior standing. (Offered Even Falls)

**962:126(g). History of Ireland - 3 hrs.**

Survey of Irish history from the age of conquests (Celtic, Viking, Anglo-Norman, and English) to the present with an emphasis on the development of political and cultural nationalism in the nineteenth century. Prerequisite(s): junior standing. (Offered Odd Springs)

**962:151(g). The Ancient Near East - 3 hrs.**

The artistic, literary, political, religious, and social accomplishments of Near Eastern people of ancient times. Prerequisite(s): junior standing. (Offered Odd Springs)

**962:152(g). Medieval Civilization - 3 hrs.**

Social, economic, political, and cultural features seen as foundations of the modern period. From Fall of Rome to 15th century. Prerequisite(s): junior standing. (Offered Even Springs)

**962:153(g). The Renaissance and Reformation - 3 hrs.**

Intellectual, artistic, economic, and political developments of the Italian and Northern Renaissance, culminating in an examination of the 16th-century Reformation. Prerequisite(s): junior standing. (Variable)

**962:158(g). Age of Absolutism and the Enlightenment - 3 hrs.**

History of emerging nations of Europe with emphasis on Age of Absolutism, Louis XIV, and the Enlightenment. Prerequisite(s): junior standing. (Offered Odd Falls)

**962:164(g). English History to 1688 - 3 hrs.**

England and the British Isles: Celtic and Roman times, England in the Middle Ages, Tudor-Stuart dynasties, the Glorious Revolution of 1688; England's beginnings as a great power and her relations with the rest of Europe. Prerequisite(s): junior standing. (Offered Odd Falls)

**962:171(g). History of Germany to 1648 - 3 hrs.**

Unified German Empire and political, social, and religious forces which undermined it from Middle Ages to end of Thirty Years War. Prerequisite(s): junior standing. (Offered Even Falls)

**963 (Europe Since ca. 1700)****963:153(g). Modern Mediterranean Europe: History and Culture - 3 hrs.**

Exploration of the rich and vibrant histories, cultures, and societies of Spain, Italy, and Greece from the late eighteenth century to the early twenty-first century. Prerequisite(s): junior standing. (Variable)

**963:154(g). Military History from Napoleon to the Present - 3 hrs.**

Study of causes and conduct of war and impact of war on society, with emphasis on 20th century. Prerequisite(s): junior standing. (Offered Spring)

**963:155(g). Europe from the French Revolution to World War I - 3 hrs.**

Emphasis on political unification, the economic, intellectual, and social impact of advances in science and technology, and the decline of the European concert leading to war in 1914. Prerequisite(s): junior standing. (Variable)

**963:156(g). History of European Popular Culture - 3 hrs.**

Examination of various aspects of everyday life in European history, including work, leisure, diet, housing, health, sanitation, role of women, status of children, family life, popular festivals, fashions, fads, sports, and games. Prerequisite(s): junior standing. (Offered Even Falls)

**963:157(g). Great Power Diplomacy from the Congress of Vienna to the Present - 3 hrs.**

International diplomacy from 1815 with emphasis on 20th century. Prerequisite(s): junior standing. (Offered Even Falls)

**963:160(g). Europe from World War I to the Present - 3 hrs.**

Study of impact of World War I, rise of Communism and Fascism, impact of World War II, and European Renaissance since 1945. Prerequisite(s): junior standing. (Variable)

**963:161(g). Modern European Women's History - 3 hrs.**

Examination of the political, social, intellectual, and economic history of women and gender relations in Europe from the Enlightenment to the present. Attention to women's rights movements and the social construction of gender. Prerequisite(s): junior standing. (Offered Spring)

**963:165(g). English History since 1688 - 3 hrs.**

English political, economic, social, and intellectual history with emphasis on the Victorians and 20th century; British Empire and Commonwealth. Prerequisite(s): junior standing. (Offered Even Springs)

**963:169(g). History of Imperial Russia - 3 hrs.**

Political, social, economic, and cultural aspects of Russia with emphasis on 19th century. Prerequisite(s): junior standing. (Offered Even Falls)

**963:170(g). History of Soviet Russia - 3 hrs.**

Political, social, economic, and cultural developments of Russia in 20th century, emphasis on ideology. Prerequisite(s): junior standing. (Offered Even Springs)

**963:172(g). History of Germany Since 1648 - 3 hrs.**

Political, social, economic, and cultural developments of Germany since the Peace of Westphalia, with emphasis on 19th and 20th centuries. Prerequisite(s): junior standing. (Variable)

**963:174(g). History of Modern France - 3 hrs.**

Survey of cultural, economic, and political history of France in 19th and 20th centuries. Prerequisite(s): junior standing. (Offered Even Springs)

**963:188(g). Modern Central and Eastern Europe - 3 hrs.**

History of Central and Eastern Europe from the 18th to early 21st century in a country-specific, regional, and comparative perspective. Employs a social history approach to examine the long-term development of societies, nations, and states in the region. Prerequisite(s): junior standing. (Variable)

**964 (Non-Western History)****964:127(g). Pre-Modern Japan - 3 hrs.**

Prehistory until early modern period (about 1800). Overview of Japan's roots, surveys the early Japanese state, and analyzes the processes of decentralization and reunification. Prerequisite(s): junior standing. (Offered Fall)

**964:128(g). Modern Japan - 3 hrs.**

Description of first non-Western nation to become a modern economic superpower. Traces development in political, social, economic, and cultural aspects from 1800 to present. Prerequisite(s): junior standing. (Offered Spring)

**964:175(g). Modern African History - 3 hrs.**

Survey of 19th- and 20th-century sub-Saharan Africa including economic and social development, emergence of modern nationalist movements, and character of the European contact and its interaction with traditional African politics. Prerequisite(s): junior standing. (Variable)

**964:176(g). Colonial Latin American History - 3 hrs.**

Discovery, exploration, conquest, and development of Colonial Latin America. Prerequisite(s): junior standing. (Offered Fall)

**964:178(g). Modern Middle East History - 3 hrs.**

Middle East history from 1789 to present including Islamic roots, the rise of nationalism in various states, Arab attempts at unity, and the Arab-Israeli conflict. Prerequisite(s): junior standing. (Variable)

**964:180(g). Latin American History - 3 hrs.**

Modern development of Latin American states and their relations to the United States. Prerequisite(s): junior standing. (Offered Spring)

**964:181(g). Pre-Modern South Asia - 3 hrs.**

Culture and institutions within the Indian subcontinent from antiquity through Hindu and Islamic periods. Prerequisite(s): junior standing. (Offered Fall)

**964:182(g). Modern South Asia - 3 hrs.**

Influence of the West on cultures and institutions within the Indian subcontinent; response to changing conditions in the Anglo-Indian Empire; rise of movements leading to establishment of India and Pakistan. Prerequisite(s): junior standing. (Offered Spring)

**964:183(g). Pre-Modern Chinese History - 3 hrs.**

Cultural and institutional developments in China from earliest times to ca. 1800 A.D. Prerequisite(s): junior standing. (Offered Fall)

**964:187(g). Modern Chinese History - 3 hrs.**

Political, social, economic, and intellectual developments in China with special emphasis on period from the Revolution of 1911 to present. Prerequisite(s): junior standing. (Offered Spring)

**970 Geography**

**970:010. Human Geography - 3 hrs.**

Interaction between peoples and their environments. Spatial patterns and processes of population distribution, characteristics, and movement, human environmental impact, and economic activity. (Offered Fall and Spring)

**970:026. Physical Geography - 3-4 hrs.**

Explanation of patterns of solar energy receipt, atmospheric pressure, winds, and precipitation around the Earth. Emphasis on how solar energy, water, and crustal movements interact to determine characteristics of natural environments on Earth. Prerequisite(s): student must have satisfied university entrance requirements in English and Mathematics. (Offered Fall and Spring)

**970:028. Recent Climate Change - 3 hrs.**

Brief overview of the climate system. Examination of the evidence for recent global and regional climate changes. Analysis of the importance of greenhouse gases, solar changes, aerosols, and cloud changes as contributors to climate changes. (Offered Fall)

**970:040. World Geography - 3 hrs.**

Reasons for and consequences of variations over surface of the earth of cultural, economic, physical, and other attributes of places. (Offered Fall, Spring, and Summer)

**970:061. Maps and Map Interpretation - 3 hrs.**

Survey of various types of maps available from perspective of map maker and user. Emphasis on reading, analysis, and interpretation of information on maps. (Offered Fall and Spring)

**970:100. Environmental Geography - 3 hrs.**

Study of geographic dimension of human-environmental interaction. Historical perspectives on Earth's environmental problems, the place of humankind in ecological systems, and issues of sustainable development. Prerequisite(s): 970:010 or 970:026 or 970:028 or 970:040 or consent of instructor. (Offered Spring)

**970:101. Economic Geography - 3 hrs.**

Analysis of changing spatial structure of the economy and inter-relationships between geography and economics within a global perspective. (Offered Spring)

**970:104. North American Cities - 3 hrs.**

Principles of urban geography, including urban growth and change, structure and dynamics, and analysis and planning in North American cities. (Offered Fall)

**970:111(g). Cultural Geography - 3 hrs.**

Examination of the nature and dynamics of culture relative to issues and landscapes that arise out of the interactions between people and their physical and human environments. Special emphasis on socio-economic development and the process of globalization. Prerequisite(s): junior standing. (Offered Odd Springs)

**970:114(g). Political Geography - 3 hrs.**

Geographic factors in origin, development, behavior, and interaction of states. Prerequisite(s): junior standing. (Offered Even Falls)

**970:116(g). Geopolitics - 3 hrs.**

Classical and contemporary geopolitical theory; introduction to formal applications; and consideration of geopolitical goals of specific states. Prerequisite(s): one previous 100-level course in social science; junior standing. (Offered Odd Falls)

**970:117(g). Transportation Planning and Policy - 3 hrs.**

Transportation policy goals and objectives, transportation planning processes, characteristics and problems of transportation systems. Use of

current methodologies and techniques to support decision making related to transportation policy, operations, and management. Prerequisite(s): junior standing. (Offered Fall)

**970:119(g). Population Geography - 3 hrs.**

Patterns, processes, and models of population structure, change, distribution, and movement. Relationships with complex spatial mosaic of socio-economic and environmental systems. Prerequisite(s): junior standing. (Offered Even Falls)

**970:121(g). Locational Analysis for Business - 3 hrs.**

Practical and theoretical use of geographic models and concepts in business. Locational analysis, site selection, market area analysis, and real estate evaluation. Prerequisite(s): junior standing. (Offered Spring)

**970:126(g). Geography of Soils - 3 hrs.**

Study of soils as result of inter-relationships among climates, ecosystems, and landscapes of the world. Soil formation, distribution, properties, and classification, and applications of soil geography to other disciplines. Lecture, 2 periods; lab/field trips, 2 periods. Prerequisite(s): 870:031 or 970:026; junior standing. (Offered Fall)

**970:127(g). Climatology - 3 hrs.**

Fundamentals of physical and dynamic climatology. Application of fundamentals to classification and mapping of global distribution of climatic types, and reconstruction of past climates. Prerequisite(s): junior standing. (Offered Even Falls)

**970:129(g). Rivers - 3 hrs.**

Runoff processes, stream discharge, sediment transport, drainage basins, properties of alluvium, channel changes, floodplains, terraces, human adjustments to floods, human impacts on rivers, and river water quality. Prerequisite(s): junior standing. (Offered Even Springs)

**970:137. Natural Hazards and Disasters - 3 hrs.**

Examination of causes, physical processes, and geographic distribution of natural hazards. Discussion of prediction methods and social impact of such disasters. (Offered Spring)

**970:141(g). Regional Geography - 3 hrs.**

Study of geography of selected region including evolution and dynamics of its cultural, social, economic, political, and environmental dimensions. May be repeated on different regions. Prerequisite(s): junior standing. (Offered Fall and Spring)

**970:142. Canadian Studies - 3 hrs.**

Survey of the physical landscape, history, demographic patterns, cultures, and political/economic systems of Canada, including detailed examination of the country's regional geography and the challenges facing the nation's future. (*Same as 900:135*) (Variable)

**970:144. Natural Regions of North America - 3 hrs.**

Description and explanation of various landscapes of North America. Focus on structures and surface processes that form distinct physical regions of North America (e.g., Rocky Mountains), and kinds of landforms that make each region unique. (Offered Even Springs)

**970:151(g). Historical Geography - 3 hrs.**

Examination of geographic development of selected region or of significance of geographic factors in historical development of selected topic. May be repeated on different regions or topics. Prerequisite(s): junior standing. (Offered Even Springs)

**970:160(g). Spatial Data Analysis - 3 hrs.**

Analysis and interpretation of spatial point processes, area, geostatistical and spatial interaction data. Applications to geographic data in real estate, biology, environmental and agricultural sciences using S-Plus software. Prerequisite(s): 800:072 or 980:080; junior standing. (*Same as 800:171g*) (Offered Odd Springs)

**970:163(g). Aerial Photo Interpretation and Photogrammetry - 3 hrs.**

Emphasis on interpretation of physical and cultural phenomena on the earth's surface using imagery obtained through aerial photography. Basic principles of photogrammetry and introduction to non-photographic



sensors. Lecture, 2 periods; lab, 2 periods. Prerequisite(s): junior standing. (Offered Fall)

**970:164. Geographic Information Systems I - 3 hrs.**

Fundamental concepts and operations of Geographic Information Systems with applications. Lectures are supplemented by computer-based projects. Lecture, 2 periods; lab 2 periods. (Offered Fall and Spring)

**970:165(g). Thematic Cartography - 3 hrs.**

Application of cartographic principles and techniques in compiling thematic maps. Emphasis on cartographic production; essentials of computer mapping and map reproduction. Lecture, 2 periods; lab, 2 periods. Prerequisite(s): junior standing. (Offered Spring)

**970:168(g). Regional Analysis and Planning - 3 hrs.**

Introduction to processes, methods, and techniques of regional analysis and planning. Planning seen as political and technical process. Prerequisite(s): junior standing. (Offered Spring)

**970:171(g). Issues in the Teaching of Geography - 3 hrs.**

Strategies and methods for teaching geography and incorporating geographic perspective in social studies courses. Prerequisite(s): junior standing. (Offered Odd Falls)

**970:173(g). Remote Sensing of the Environment - 3 hrs.**

Examination of physical basis of Remote Sensing and various sensing systems available for monitoring, mapping, measuring, and identifying phenomena on the earth's surface. Emphasis on non-photographic systems operating within the electromagnetic continuum. Various modes of multispectral scanning. Lecture, 2 periods; lab, 2 periods. Prerequisite(s): junior standing. (Offered Fall)

**970:174(g). Geographic Information Systems II - 3 hrs.**

Technical issues in GIS and ways of implementing GIS as a decision support system for solving problems of a spatial nature in selected fields. Lecture, 2 periods; lab, 2 periods. Prerequisite(s): 970:164 or consent of instructor; junior standing. (Offered Spring)

**970:175(g). Global Positioning System Field Survey Methods - 3 hrs.**

Utilization of global positioning system (GPS) to collect, process, and analyze geographic data. GPS theory and techniques including field survey experiences. Applications within an integrated geographic information system (GIS) framework. Prerequisite(s): junior standing. (Offered Fall)

**970:179. Cooperative Education in Geography - 1-3 hrs.**

Practical experience in business, industry, or a government agency. May be repeated for maximum of 3 hours. Offered on credit/no credit basis only. Prerequisite(s): 15 hours of geography at UNI; cumulative GPA of 2.50; junior standing; consent of department. (Formerly 970:177) (Offered Fall, Spring, and Summer)

**970:180. Senior Seminar in Geography - 3 hrs.**

Examination of specific topics through application of geographic principles and analysis. Discussion of readings during first half semester and student presentations during second half semester. Research paper required. Prerequisite(s): 21 hours of geography. (Offered Spring)

**970:183(g). Satellite Image Processing - 3 hrs.**

Scientific and computational foundation of digital image processing techniques for extraction of earth resources information from remotely sensed satellite data. Prerequisite(s): 970:173; junior standing. (Variable)

**970:189. Readings in Geography - 1-3 hrs.**

Maximum of 3 hours can be applied toward Geography major. Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**970:190(g). Field Studies in Geography - 2-3 hrs.**

Off-campus experience with preparatory and follow-up classroom study. Specific area to be studied, credit hours, and prerequisites listed in Schedule of Classes. May be repeated in different geographical areas for maximum of 6 hours. Prerequisite(s): junior standing. (Variable)

**970:193. Research Experience in Geography - 1-3 hrs.**

Conducting of supervised research or scholarly project. May be repeated

for maximum of 6 hours. Prerequisite(s): 15 hours of geography; consent of instructor. (Offered Fall, Spring, and Summer)

**970:202. Graduate Colloquium - 1 hr.**

Weekly presentations by a faculty member, visitor, or student. May be repeated for maximum of 2 hours. (Offered Fall)

**970:277. Internship in Geography - 1-3 hrs.**

Practical experience in business, industry, or a government agency. May be repeated for maximum of 3 hours. Offered on credit/no credit basis only. Prerequisite(s): minimum of 9 hours of geography at UNI; graduate cumulative GPA of 3.00; consent of department. (Offered Fall, Spring, and Summer)

**970:280. Seminar - 3 hrs.**

Topics listed in Schedule of Classes. May be repeated on different topics. (Variable)

**970:285. Readings in Geography - 1-3 hrs.**

Prerequisite(s): consent of department head. (Offered Fall, Spring, and Summer)

**970:294. Nature of Geography and Its Research Methodology - 3 hrs.**

Analysis of various currents of thought concerning the nature and scope of geography and the way they have changed over time. Examination of various geographic research methodologies in the context of these philosophical issues. (Offered Fall)

**970:298. Directed Research Project - 3 hrs.**

Research leading to research paper for students in the non-thesis option. Prerequisite(s): 970:294. (Offered Fall, Spring, and Summer)

**970:299. Research.**

(Offered Fall, Spring, and Summer)

## 980 Sociology

**980:001. Introduction to Sociology - 3 hrs.**

Scientific approach to analysis and understanding of culture, human groups and institutions, personality, self, and social control. (Offered Fall and Spring)

**980:045. American Racial and Ethnic Minorities - 3 hrs.**

Survey of several American minorities, including Hispanics, Blacks, Asians, and Native Americans. Multi-disciplinary study of these groups with particular emphasis on geographic origins, linguistic traditions, and current modes of economic subsistence. Introduction to folkways and mores of each group. (Same as 450:045 and 900:045) (Offered Fall and Spring)

**980:060. Social Problems - 3 hrs.**

Analysis of nature and range of social problems arising in modern industrial society. Consideration given to conditions creating them and methods by which society seeks to cope with them. (Offered Fall and Spring)

**980:080. Statistics for Social Research - 3 hrs.**

Levels of measurement, frequency distributions, graphic representations, measures of average, measures of dispersion, cross-tabulation and measures of association, Pearson correlation, bivariate regression analysis, probability and hypothesis testing, inferences involving single sample and two samples, and analysis of variance. Prerequisite(s): completion of mathematics requirement for the Liberal Arts Core. (Offered Fall and Spring)

**980:100(g). Social Psychology - 3 hrs.**

Analysis of how people's thoughts, feelings, actions, and identities are influenced by social processes, interactions, and structures. Special attention to how people acquire, construct, and negotiate identities and how they are influenced by social realities of race, class, gender, and sexual orientation in these processes. Prerequisite(s): 980:001; junior standing. (Variable)

**980:102. Conflict Resolution - 3 hrs.**

Survey of social science theory and research in conflict resolution with emphasis on development of less destructive modes of problem solving in social formations. (Same as 450:102 and 990:102) (Variable)

## 980 Sociology

### **980:105(g). Sociology of Families - 3 hrs.**

Examination of social aspects of families by reviewing research on topics such as mate selection, marital quality, work and families, parenthood, divorce and remarriage, and family diversity. Prerequisite(s): 980:001; junior standing. (Offered Spring)

### **980:108. Research Methods - 3 hrs.**

Introduction to basic research methods used in social research. Conceptualization and operationalization of research problems. Examination of various research designs used to collect data. Introduction to sampling, instrumentation, data processing, data analysis, and report production. Prerequisite(s): 980:001. (Offered Fall and Spring)

### **980:118(g). Health, Illness, and Dying - 3 hrs.**

Focus on the social organization of health care and the social psychological aspects of health, illness, and dying. Analyses of the social construction and distribution of illness, the structure of care, and the experience of health, illness, and dying. Prerequisite(s): 980:001; junior standing. (Variable)

### **980:120(g). Immigration and Transnationalism - 3 hrs.**

Comparative multi-disciplinary perspective on international migration and immigrant settlement strategies, with a focus on Western Europe and the United States. Topics cover the main theoretical and contemporary debates within the field of international migration. Prerequisite(s): 980:001; junior standing. (Variable)

### **980:125(g). Social Gerontology - 3 hrs.**

Personal, interpersonal, and societal factors in the human aging process; emphasis on family, community, and governmental responsibility in defining and resolving problems of the aged in modern industrial society. Prerequisite(s): 980:001; junior standing. (Offered Fall)

### **980:129(g). Men and Masculinities - 3 hrs.**

Examination of men's lives from boys to men in such roles as friends, lovers, co-workers, family members, students, athletes, consumers, and soldiers. Consideration of diversities of male experiences through such categories as race, ethnicity, religion, class, sexual orientation, age, physical ability, and appearance. Prerequisite(s): junior standing. (Variable)

### **980:135(g). Social Inequality - 3 hrs.**

Origin, development, and characteristics of systems of social inequality and stratification. Examination of class and caste systems, interactions between varying classes and status groups, the effects of social mobility, and theories of inequality. Prerequisite(s): 980:001; junior standing. (Offered Spring)

### **980:138(g). Sociology of Culture - 3 hrs.**

Culture permeates our lives, as a powerful and everyday force in society. Covers classical and contemporary theory, the high and popular culture debate, and the production and reception/consumption of culture. Prerequisite(s): 980:001 or 990:011; junior standing. (Offered Fall)

### **980:145(g). Research Experience in Sociology - 1-3 hrs.**

Research participation and/or independent supervised research. May be repeated for maximum of 6 hours. Prerequisite(s): 15 hours in sociology including 980:080 and 980:108; junior standing; consent of instructor and department head. (Offered Fall, Spring, and Summer)

### **980:148(g). Environmental Sociology - 3 hrs.**

Examination of issues of resource depletion and environmental degradation from socio-ecological perspective. Emphasis on interaction between these problems and patterns of social organization, and impacts of these problems on quality of life. Prerequisite(s): 980:001; junior standing. (Offered Fall)

### **980:156(g). Social Movements - 3 hrs.**

Sociological and sociopsychological conceptualizations of the genesis, dynamics, and demise of modern social movements. Emphasis on reformist, utopian, nativistic, and totalitarian organizations. Prerequisite(s): 980:001; junior standing. (Variable)

### **980:160(g). Social Data Analysis - 3 hrs.**

Intermediate methods of analysis using standing computer software program packages; descriptive and inferential statistics with controlled relationships, multivariate analysis, and scale analysis techniques. Primary orientation to survey data in social sciences. Prerequisite(s): 980:080 or equivalent; junior standing. (Offered Spring)

### **980:167(g). Gender in Cross-Cultural Perspective - 3 hrs.**

Evolutionary, biological, psychological, cognitive, social, and cultural theories of gender and gender inequality evaluated with respect to cross-cultural data. Prerequisite(s): 400:001 or 980:001 or 990:011; junior standing. (*Same as 400:167g and 990:167g*) (Offered Odd Springs)

### **980:168(g). Culture, Disease, and Healing - 3 hrs.**

Introduction to medical anthropology through examination of the interactions among culture, disease, and healing. Emphasis on non-Western medical systems. Topics include development of medical anthropology; the social fabric of health; the cultural context of health, illness, and disease. Prerequisite(s): 980:001 or 990:011; junior standing. (*Same as 990:168g*) (Variable)

### **980:170(g). The Development of Social Theories - 3 hrs.**

Summary and critical appraisal of growth of sociological thought; historical consideration of social philosophy; introduction of leading sociological thinkers and their theories of society. Prerequisite(s): 980:001; junior standing. (Offered Fall and Spring)

### **980:171(g). Feminist Theories in the Social Sciences - 3 hrs.**

Survey of theoretical approaches to study of sex and gender. Classical, structural, neo-Freudian, Marxist feminist, and radical approaches. Topics include work, family, religion, and sexuality. Prerequisite(s): 900:020 or 980:001 or 990:011; junior standing. (Offered Spring)

### **980:172(g). Sociology of Religion - 3 hrs.**

Examination of social bases of religious institutions; factors in religious evolution and change; comparative analysis of religious organizations and religious behavior; functions of religion in the social structure. Prerequisite(s): 980:001; junior standing. (Offered Fall)

### **980:176(g). Social Change - 3 hrs.**

Nature of social change and its implications for personality and society. Prerequisite(s): 980:001; junior standing. (Variable)

### **980:177. Language and Culture - 3 hrs.**

Examination of how language use shapes and expresses cultural identity. Implications of linguistic diversity for world view, gender and ethnic identity, education, and cross-cultural communication. Prerequisite(s): 400:001 or 980:001 or 990:011. (*Same as 400:177 and 990:177*) (Offered Fall)

### **980:178(g). Qualitative Research Methods - 3 hrs.**

Development and application of qualitative descriptive and analytic methods used in social science research. Prerequisite(s): 980:001 or 990:011; junior standing. (*Same as 990:178g*) (Offered Fall)

### **980:179. Cooperative Education.**

Prerequisite(s): Consent of instructor and department head. (Variable)

### **980:180(g). Seminar in Sociology - 1-3 hrs.**

Selected topics; opportunity to correlate previous course work and knowledge in field of sociology. Topic listed in Schedule of Classes. May be repeated for maximum of 6 hours. Prerequisite(s): 15 hours in sociology or consent of instructor; junior standing. (Variable)

### **980:184(g). Theory and Practice in Applied Settings - 1-6 hrs.**

Experiential learning in sociology. Requires prior consultation with instructor. Offered on credit/no credit basis only. Prerequisite(s): 12 hours in sociology; junior standing. (Offered Fall, Spring, and Summer)

### **980:189(g). Readings in Sociology - 1-3 hrs.**

May be repeated only with consent of department. Prerequisite(s): 9 hours in sociology; junior standing; consent of department. (Offered Fall, Spring, and Summer)

**980:198. Independent Study.**

Prerequisite(s): Consent of instructor and department head. (Variable)

**980:200. Contemporary Sociology Theory - 3 hrs.**

Description and analysis of main currents in contemporary sociological thought; principal sociological theorists; major themes, schools, trends, issues, and debates in theory. Prerequisite(s): 980:170. Open to seniors with consent of department head. (Offered Spring)

**980:201. Advanced Research Methodology - 3 hrs.**

Relationship between theory and research, grand methodology; logic and philosophy of sociology; science and sociology; theory construction, formal models, explanation, prediction, and cause; value freedom, objectivity, and ideology. Prerequisite(s): 980:108. Open to seniors with consent of department head. (Offered Fall)

**980:211. Proseminar - 1 hr.**

Introduction to problems, techniques, and tools of graduate-level study and research in sociology. Addresses various components of graduate school socialization and professionalization. (Variable)

**980:260. Quantitative Analysis - 3 hrs.**

Familiarizes students with the process of: (1) forming research questions guided by theory; (2) quantitatively assess the validity of the research question; (3) interpret the results; and (4) present the research question and results in a research paper. Objective is to make students aware of how to do quantitative research and present it in a scholarly manner. Directed toward students in graduate school who desire to work in a research setting or with data. Can serve as a vehicle for the thesis. Prerequisite(s): Graduate standing or consent of instructor. (Offered Spring)

**980:278. Qualitative Research: Data Collection and Analysis - 3 hrs.**

Expands on the material covered in 980:178 and 990:178. Continues to introduce students to varied qualitative methods through lectures and activities. Requires more analysis of previous qualitative research and requires that graduate students prepare a research article based on their findings as the final paper for the class. Prerequisite(s): graduate standing or consent of instructor. (Offered Fall)

**980:280. Seminar in Sociology - 3 hrs.**

Topics include Sociological Theory, Deviant Behavior, Social Psychology, Social Stratification, Population, Sociological Research, Sociology of Religion, and others. Topic listed in Schedule of Classes. Advanced course in specific scheduled area will be considered a prerequisite to that seminar. May be repeated on different topics. (Variable)

**980:285. Individual Readings - 1-3 hrs.**

Prerequisite(s): Consent of instructor and department head. (Variable)

**980:297. Practicum.**

Prerequisite(s): Consent of instructor and department head. (Variable)

**980:299. Research.**

Prerequisite(s): Consent of instructor and department head. (Variable)

**982 Criminology****982:022. Criminal Justice System - 3 hrs.**

Genesis, transformation, and day-to-day operation of criminal justice within our society; emphasis on interrelationships between specific stages in the crime-control process and the differences between U.S. and other criminal justice systems. Prerequisite(s): 980:001. (Formerly 980:022) (Offered Spring)

**982:025. Criminology - 3 hrs.**

Introduction to the study of criminal behavior, with emphasis on social science approaches. Overview of types of crime, and theories, methods and data used to study crime. Prerequisite(s): 980:001; sophomore standing. (Formerly 980:025) (Offered Fall and Spring)

**982:110(g). State Crime - 3 hrs.**

Survey of crimes of the state from a sociological and criminological perspective. Examination of historical and current cases at home and abroad. State crime theoretical perspectives used to understand the epistemologi-

cal and etiological catalysts of state crime. Prerequisite(s): junior standing. (Variable)

**982:111(g). Sociology of an International Community - 3 hrs.**

Focus on the development of international community. Exploration of how the ideology for "international community" is parallel to the implementation of a global framework for supranational social organization and principles of human rights. Prerequisite(s): junior standing. (Variable)

**982:112. White Collar Crime - 3 hrs.**

Examination of theoretical definition, social impact, and changing relationship between current technological advancements and society's ability to both detect and punish white collar criminals. Prerequisite(s): 980:001; 982:025. (Formerly 980:112) (Offered Fall)

**982:113. Ethics in Crime, Law and Justice - 3 hrs.**

Critical examination of ethical issues related to theoretical and practical issues facing law enforcement, legal, and corrections personnel, civil and criminal laws, medical field, academics, students, consumers, and the general public. Prerequisite(s): 980:001; 982:022; sophomore standing. (Variable)

**982:116(g). Correctional Treatment: Theory and Practice - 3 hrs.**

Examination of evolution and development of correctional treatment in United States, with special attention to description and evaluation of programs in juvenile and adult corrections. Alternatives to rehabilitative ideal; students are expected to develop other treatment models. Prerequisite(s): 980:001; 982:022 or 982:025; junior standing. (Formerly 980:116g) (Variable)

**982:117. Community Corrections - 3 hrs.**

Overview of sanctioning alternatives to imprisonment, including traditional probation and parole practices, as well as intermediate sanctions such as boot camps, electronic monitoring, fines, and intensive supervision. Sentencing will be discussed, as it influences probation/parole populations, as will the duties and responsibilities of probation and parole officers. Prerequisite(s): 980:001; 982:022; sophomore standing. (Formerly 980:117) (Variable)

**982:119(g). Victimology - 3 hrs.**

Sociological investigation of institutional, economic, family, and personal victimization in American society with special attention to causes and processes of exploitation. Prerequisite(s): junior standing. (Formerly 980:119g) (Offered Fall)

**982:122(g). Youth Gangs - 3 hrs.**

Origins and development of youth gangs in United States. Topics include recent emergence of gangs, especially in Iowa, relationship between drugs and violence and gang activity, and creation of social policy to prevent and control gang activity. Prerequisite(s): 980:001; junior standing. (Formerly 980:122g) (Offered Spring)

**982:123(g). Social Deviance and Control - 3 hrs.**

Causes and consequences of socially-disapproved behavior; role of social control agencies in recruitment of deviant identities, management of and reaction to deviance; dynamics of labeling processes, and examination of social meaning of non-normative behavior. Prerequisite(s): 980:001; junior standing. (Formerly 980:123g) (Offered Spring)

**982:124(g). Police and Society - 3 hrs.**

Sociological investigation of evolution and structure of policing in United States society, with special attention to conflicts and imperatives which define police officers' roles and character of police work. Prerequisite(s): 982:022; junior standing. (Formerly 980:124g) (Offered Fall)

**982:126(g). Crime and Punishment - 3 hrs.**

Crime and punishment in American society, social history of punishment, theories of punishment, and how it relates to prison subcultures, crime rates, power relations, and cultural values. Prerequisite(s): 982:022; junior standing. (Formerly 980:126g) (Variable)

## 982 Criminology/990 Anthropology

### **982:127. Juvenile Delinquency - 3 hrs.**

Examination of the causes of delinquency in children, focusing on the effects of parenting, youth subcultures, and the media. Includes youth crimes, such as shoplifting and vandalism. Prerequisite(s): 980:001; 982:025. (Formerly 980:127) (Offered Fall and Spring)

### **982:128(g). The Sociology of Law - 3 hrs.**

Sociological analysis of judicial and jury decision making, legal structures, legislation, power, beliefs, conflict, and social change. Examination of criminal, civil, and public law. Prerequisite(s): 980:001; junior standing. (Formerly 980:128g) (Offered Fall)

### **982:131(g). Women, Crime and Society - 3 hrs.**

Sociological analysis of women as victims, offenders, practitioners, and professionals in the criminal justice system. Examination of changing perceptions and behaviors of women in United States and other countries in relation to role expectations of women in criminal justice system. Prerequisite(s): 980:001; 982:022 or 982:025; junior standing. (Formerly 980:131g) (Offered Fall)

### **982:132. Juvenile Justice - 3 hrs.**

Examination of history, philosophies, and structure of juvenile justice system. Discussion of issues confronting legislators, the judiciary, and juvenile justice personnel in context of the need to provide treatment and protection of individual rights and liberty. Prerequisite(s): 980:001; 982:022; junior standing. (Formerly 980:132g) (Offered Spring)

### **982:137(g). Homicide - 3 hrs.**

Presentation of a description, discussion, and evaluation of the various types of homicide. Focus on the characteristics and backgrounds of homicidal offenders. Prerequisite(s): 980:001; 982:025; junior standing. (Formerly 980:137g) (Variable)

### **982:151. Crime and Social Inequality - 3 hrs.**

Introduction and review of major issues in the study of race, class, and crime. Examination of recent empirical research on social inequality, crime and the criminal justice system, as well as discussion of the relationship between inequality and criminal justice policy. Prerequisite(s): 980:001; 982:022; junior standing. (Formerly 980:151g) (Variable)

### **982:152. Crime and Community - 3 hrs.**

Exploration of the connection between community characteristics and crime. Students are presented with theories that address why some neighborhoods have concentrated crime and learn about what scholars, organizers, police, and politicians can do to reduce crime. Prerequisite(s): 980:001; 982:025. (Formerly 980:152) (Variable)

### **982:153(g). Crime and Public Policy - 3 hrs.**

Analysis of public policy issues related to crime and justice. Focus on the design, implementation and evaluation of public policy responses to criminal behavior. Prerequisite(s): 980:001; 982:022; junior standing. (Formerly 980:153g) (Offered Fall)

### **982:162(g). Crime, Law, and Justice: A Global Perspective - 3 hrs.**

Exploration of similarities and diversity in crime, law, and social control in a cross-cultural and global perspective. Examination of case studies from traditional and contemporary; emphasis on theoretical approaches from anthropology, sociology, and criminology. Prerequisite(s): 980:001 or 990:011; junior standing. (Same as 990:162g) (Formerly 980:162g) (Variable)

### **982:169(g). Drugs, Crime, and Society - 3 hrs.**

Examination of the relationship between crime and drugs in America. Covers the social and political history of drug use and control, the drug war, the lives of drug addicts, drug treatment policies, and possible revisions to America's drug laws. Prerequisite(s): 980:001; junior standing. (Formerly 980:169g) (Variable)

### **982:175. Theory and Criminal Justice - 3 hrs.**

Analysis of crime and its effect upon society; examination of theoretical models undergirding prevention and control of criminal behavior; and

model-building exercises on justice system. Prerequisite(s): Criminology major only; senior standing or consent of instructor. (Formerly 980:175g) (Offered Fall and Spring)

### **982:179. Cooperative Education - 1-3 hrs.**

Prerequisite(s): consent of instructor and department head. (Variable)

### **982:181(g). Seminar in Criminology - 3 hrs.**

Selected topics; opportunity to focus previous course work and knowledge on a special issue in criminology. Topic listed in Schedule of Classes. May be repeated for maximum of 6 hours. Prerequisite(s): 980:001; 982:025; junior standing. (Formerly 980:181g) (Offered Fall and Spring)

### **982:185. Criminology Internship - 3 hrs.**

Experiential learning through internship placement in a criminological or criminal justice related agency or position. Requires prior consultation with instructor. Prerequisite(s): 980:001; 982:022; 982:025; major GPA of 2.80 or higher; junior standing; consent of instructor and department head. (Formerly 980:185) (Variable)

### **982:198. Independent Study - 1-3 hrs.**

Prerequisite(s): consent of instructor and department head. (Variable)

### **982:250. Crime and Society - 3 hrs.**

Examination of the influence of social factors ranging from macro-level institutions to micro-level interactions, on criminal behavior and societal reactions to crime. Prerequisite(s): graduate standing or consent of instructor. (Formerly 980:250) (Variable)

### **982:251. Criminological Theory - 3 hrs.**

Comprehensive overview and appraisal of criminological theory. Major theoretical positions (classical, modern, and post-modern); debates surrounding agency, ontology, and epistemology. Development of theory in historical context, and uses and function of theory. Prerequisite(s): graduate standing or consent of instructor. (Formerly 980:251) (Variable)

### **982:253. Law and Social Control - 3 hrs.**

Sociological study of law and social control: theoretical developments, empirical research, and applications. Prerequisite(s): graduate standing or consent of instructor. (Formerly 980:253) (Variable)

### **982:280. Seminar in Criminology - 3 hrs.**

Allows for a greater depth of research and discussion into various specialty areas within the field of criminology. May be repeated for a maximum of 6 hours. Prerequisite(s): graduating standing or consent of instructor. (Variable)

### **982:299. Research.**

Prerequisite(s): consent of instructor and department head. (Variable)

## **990 Anthropology**

### **990:010. Human Origins - 3 hrs.**

Introduction to physical and prehistoric development of humankind, including primate and human evolution, modern races, and the archaeological cultures of the world. (Offered Fall and Spring)

### **990:011. Culture, Nature, and Society - 3 hrs.**

Introduction to cross-cultural perspective on human behavior. Consideration of the nature of society and culture among diverse human groups, from hunter-gatherers to industrialized city dwellers, by examination of their technologies, economic systems, family life, political structures, art, languages, and religious beliefs and practices. Emphasis on non-Western societies. (Offered Fall and Spring)

### **990:102. Conflict Resolution - 3 hrs.**

Survey of social science theory and research in conflict resolution with emphasis on development of less destructive modes of problem solving in social formations. (Same as 450:102 and 980:102) (Variable)

### **990:125(g). Introduction to Museum Studies - 3 hrs.**

Exploration of history, public mission, working environment, and ethical issues of museums. Discussion of practical skills and theoretical issues of museum studies, exposing students to broad range of museum types and

career opportunities. Prerequisite(s): junior standing. (*Same as 960:125g*) (Offered Even Springs)

**990:132. Native North America - 3 hrs.**

Ethnographic survey of sociocultural systems developed by Native Americans north of Mexico. Emphasis on relationships that exist among ecological factors, subsistence techniques, social organizations, and belief systems; and the impact interactions with European and U.S. societies had on Indian lifestyles. (*Same as 680:132*) (Variable)

**990:137. Native Central and South America - 3 hrs.**

Ethnographic focus on the sociocultural systems of the indigenous peoples of Mesoamerica, Amazon Basin and the Andean Highlands. Emphasis on inter-relationships among environment, history, social organizations and belief systems from a holistic and comparative perspective. (*Same as 680:137*) (Variable)

**990:141. Mesoamerica and the Near East - 3 hrs.**

Beginnings of food production, rise of complex culture and collapse of cultural systems as interpreted through archaeological data. Comparative approach focusing on Mesoamerica and the Near East. Prerequisite(s): 990:010; junior standing or consent of instructor. (Variable)

**990:142. Archaeology of the New World - 3 hrs.**

Prehistory of North American Indians and major prehistoric cultures in Central and South America, including the Aztec, Maya, and Inca, traced from earliest arrival of peoples in the New World to time of European contact. Prerequisite(s): 990:010; junior standing or consent of instructor. (Variable)

**990:143. Archaeology of the Old World - 3 hrs.**

Prehistory of Africa, Asia, Europe, and Australia from dawn of humanity to civilizations of Egypt, Indus Valley, Mesopotamia, and China. Emphasis also on prehistory of simple hunter-gatherer cultures in the Old World. Prerequisite(s): 990:010; junior standing or consent of instructor. (Variable)

**990:144. Prehistory of the American Southwest - 3 hrs.**

Archaeological record of the American Indians of New Mexico, Arizona, southern Colorado, and southern Utah from earliest big-game hunters of the region, through development of agriculture, rise of large pueblos and cliff dwellings, and enigmatic abandonments prior to conquest by the Spaniards. Prerequisite(s): 990:010 or 990:011; junior standing. (Variable)

**990:145. Research Experience in Anthropology - 1-3 hrs.**

Research participation and/or independent supervised research in anthropology. May be repeated for maximum of 6 hours. Prerequisite(s): 15 hours in anthropology; consent of instructor and department head. (Offered Fall, Spring, and Summer)

**990:148(g). Applied Anthropology - 3 hrs.**

Consideration of application of anthropology in analyzing and addressing contemporary social problems. Topics include economic development, public health, ethnic relations, and education. Prerequisite(s): 980:001 or 990:011; junior standing. (Variable)

**990:151. Physical Anthropology: History and Theory - 3 hrs.**

Historical perspective on the development of evolutionary thought and how it changed ideas in physical anthropology, including the theoretical foundations of the "modern synthesis," the race concept, primate studies, paleoanthropology, and human ecology and adaptation. Prerequisite(s): 990:010; junior standing or consent of instructor. (Offered Spring)

**990:152(g). Human Biological Variation - 3 hrs.**

Exploration of the processes and origins of human biological variability, adaptability, and responses to a changing environment. Prerequisite(s): 990:010; junior standing. (Variable)

**990:153. Primate Behavior - 3 hrs.**

Examination of behavior and appearance of nonhuman primates in response to environmental and social factors. Investigation of how diet, reproduction, and social interaction among prosimians, monkeys, and

apes act as a foundation for interpreting the origins of humans and their behaviors. Prerequisite(s): 990:010; junior standing or consent of instructor. (Variable)

**990:155. Forensic Anthropology - 3 hrs.**

Introduction to methods used in the recovery of unidentified human remains, their use in establishing identity, the post-mortem interval, pathological defects and traumatic insults and reconstructing the events surrounding death. Knowledge of the human skeletal anatomy preferred. Prerequisite(s): 990:010; junior standing; consent of instructor. (Offered Spring)

**990:157(g). Ritual and Symbolism - 3 hrs.**

Comparative approach to study of ritual in socio-cultural contexts. Consideration of psychological, sociological, and cultural interpretations of ritual symbolism based on case studies from selected non-Western cultures. Focus on rites of passage, reversal, and healing. Prerequisite(s): 980:001 or 990:011; junior standing. (Variable)

**990:161. Religion, Magic, and Witchcraft - 3 hrs.**

Anthropological understanding of behavior dealing with the supernatural; supernatural beliefs, practices, and movements throughout the world. (*Same as 640:161*) (Offered Spring)

**990:162(g). Crime, Law, and Justice: A Global Perspective - 3 hrs.**

Exploration of similarities and diversity in crime, law, and social control in a cross-cultural and global perspective. Examination of case studies from traditional and contemporary; emphasis on theoretical approaches from anthropology, sociology, and criminology. Prerequisite(s): 980:001 or 990:011; junior standing. (*Same as 982:162g*) (Variable)

**990:164(g). Psychological Anthropology - 3 hrs.**

Psychological dimensions of sociocultural systems from a cross-cultural perspective. Analysis of universals and cultural variation in cognition, socialization, concepts of the self, emotion, and mental illness. Prerequisite(s): 400:001 or 990:011; junior standing. (*Same as 400:164g*) (Offered Even Springs)

**990:167(g). Gender in Cross-Cultural Perspective - 3 hrs.**

Evolutionary, biological, psychological, cognitive, social, and cultural theories of gender and gender inequality evaluated with respect to cross-cultural data. Prerequisite(s): 400:001 or 980:001 or 990:011; junior standing. (*Same as 400:167g and 980:167g*) (Offered Odd Springs)

**990:168(g). Culture, Disease, and Healing - 3 hrs.**

Introduction to medical anthropology through examination of the interactions among culture, disease, and healing. Emphasis on non-Western medical systems. Topics include development of medical anthropology; the social fabric of health; the cultural context of health, illness, and disease. Prerequisite(s): 980:001 or 990:011; junior standing. (*Same as 980:168g*) (Variable)

**990:171(g). Interpreting the Archaeological Record - 3 hrs.**

Anthropological approaches to archaeology, including history of research; formation of archaeological record; research design, data collection, artifact analysis, classification, interpretation, dating, and inference. Prerequisite(s): 990:010; 990:011; 3 hours of 100-level archaeology or consent of instructor; junior standing. (Offered Odd Falls)

**990:172. Archaeological Fieldwork - 3-8 hrs.**

Introduction to field research techniques (survey, excavation, and mapping), laboratory processing, and hypothesis testing. Conducted in the field. Prerequisite(s): 990:010; consent of instructor. (Offered Odd Summers)

**990:176(g). Anthropological Theory - 3 hrs.**

Major theoretical developments in anthropology, including both historical and contemporary schools and trends. Prerequisite(s): 990:011; junior standing. (Offered Fall)

**990:177. Language and Culture - 3 hrs.**

Examination of how language use shapes and expresses cultural identity. Implications of linguistic diversity for world view, gender and ethnic

## 990 Anthropology

identity, education, and cross-cultural communication. Prerequisite(s): 400:001 or 980:001 or 990:011. (*Same as 400:177 and 980:177*) (Offered Fall)

### **990:178(g). Qualitative Research Methods - 3 hrs.**

Development and application of the qualitative descriptive and analytic methods used in social science research. Prerequisite(s): 980:001 or 990:011; junior standing. (*Same as 980:178g*) (Offered Fall)

### **990:180(g). Seminar in Anthropology - 3 hrs.**

Selected problems within one subfield of anthropology (cultural, physical, archaeological, or anthropological linguistics). Topic listed in Schedule of Classes. May be repeated. Prerequisite(s): vary with topic; junior standing. (Variable)

### **990:184. Experience in Applied Anthropology - 1-6 hrs.**

Work experience in applied anthropology. Requires prior consultation with instructor. Offered on credit/no credit basis only. Prerequisite(s): 12 hours in anthropology; consent of instructor and department head. (Variable)

### **990:189(g). Readings in Anthropology - 1-3 hrs.**

May be repeated only with consent of department. Prerequisite(s): 9 hours in anthropology; junior standing; consent of instructor and department head. (Variable)

### **990:198. Independent Study.**

Prerequisite(s): consent of instructor and department head. (Variable)

# Board of Regents, State of Iowa

---

## Officers of the Board:

David W. Miles, President  
West Des Moines

Jack B. Evans, President Pro Tem  
Cedar Rapids

Robert Donley, Executive Director  
Urbandale

## Members of the Board:

Terms expire June 2009

Jenny L. Connolly, Cedar Falls  
Robert N. Downer, Iowa City  
Ruth R. Harkin, Cumming

Terms expire June 2011

Bonnie J. Campbell, Des Moines  
Michael G. Gartner, Des Moines  
Rose A. Vasquez, Des Moines

Terms expire June 2013

David W. Miles, West Des Moines  
Jack B. Evans, Cedar Rapids  
Craig A. Lang, Brooklyn

## Administration and Academic Departments

---

### 2008-2010

#### Officers of Administration

**Benjamin J. Allen** — B.S., Indiana University; M.A., Ph.D., University of Illinois

President of the University  
Professor, Management — 2006

**\*James F. Lubker** — B.S., Mankato State College; M.A., Ph.D., University of Iowa

Interim Executive Vice President and Provost — 2008  
Professor of Communication Sciences and Disorders — 1995

**William D. Calhoun, Jr.** — B.A., Hiram College, Ohio; M.A., University of Northern Iowa

Vice President for University Advancement/President, UNI Foundation — 1981 (1999)

**Terrance Hogan** — B.S.C., M.A., Ph.D., Ohio University  
Vice President for Student Affairs — 2008

**Thomas G. Schellhardt** — B.S., Southern Illinois University; M.S., Purdue University

Vice President for Administration and Finance — 2002

**\*Patricia L. Geadelmann** — B.A., University of Northern Iowa; M.A., University of Iowa; M. Div., United Theological Seminary of the Twin Cities; Ed.D., University of North Carolina-Greensboro  
Special Assistant to the President for Board and Governmental Relations — 1996

Professor of Physical Education — 1972 (1984)

#### Associate Provost for Academic Affairs

**\*Beverly A. Kopper** — B.A., State University of New York-Buffalo; M.S.S.W., University of Wisconsin-Madison; M.S., Ph.D., Iowa State University

Professor, Psychology — 1990 (2001)

Associate Provost for Academic Affairs — 2007

#### College Deans and Academic Department Heads/Directors

##### College of Business Administration

**\*Farzad Moussavi** — B.A., Institute of Advanced Accounting, Iran; D.A.S., Leeds Polytechnic, England; M.B.A., Roosevelt University; Ph.D., University of Arkansas

Dean of the College of Business Administration — 2003

Professor of Management — 1985 (1997)

**\*Fred J. Abraham** — B.S., University of Wisconsin-LaCrosse; M.S., University of Wisconsin-Madison; M.A., Ph.D., University of Oregon

Professor, Economics — 1973 (1988)

Head of the Department of Economics — 1992

**\*Steven B. Corbin** — B.A., University of Northern Iowa; M.Ed., Colorado State University; Ed.D., Virginia Polytechnic Institute and State University

Associate Professor, Marketing — 1975 (1980)

Interim Head Department of Marketing — 2007

**\*Arthur T. Cox** — B.B.A., M.A., Ph.D., University of Iowa  
Associate Professor, Finance — 1989 (1995)

Director of the Real Estate Education Program

Interim Head of Department of Finance (2006)

**\*Dale Cyphert** — B.A., San Diego State; M.B.A., University of California-Davis; Ph.D., Penn State University

Associate Professor, Management — 1997 (2003)

Acting Head of the Department of Management — 2006

**\*Martha L. Wartick** — B.B.A., Pittsburg State University; M.S., Ph.D., Pennsylvania State University; CPA

Professor, Accounting — 1998 (2007)

Head of the Department of Accounting — 2004 (2008)

---

A single date following the title indicates the beginning of service at this university. If two dates are given, the first indicates the incumbent's first appointment to a position and the second (in parentheses) the beginning of service in the present capacity.

---

\* Regular graduate faculty member.

## Administration and Academic Departments

### College of Education

**\*William P. Callahan II** — B.A., University of Southern Florida; M.A.T., Rollins College; Ed.D., University of Florida  
Professor, Special Education — 1979 (1989)  
Dean of College of Education — 2007

**\*Radhi H. Al-Mabuk** — B.A., St. Mary's College-Winona; M.S., Winona State University; Ph.D., University of Wisconsin-Madison  
Associate Professor, Educational Psychology and Foundations — 1990 (1996)  
Interim Head of the Department of Educational Psychology and Foundations — 2007

**Nadene A. Davidson** — B.A., M.A., Ed.D., University of Northern Iowa  
Assistant Professor, Teaching — 1981 (2007)  
Interim Head of Department of Teaching — 2007

**\*Christopher R. Edginton** — B.A., San Jose State University; M.S., University of Illinois; Ph.D., University of Iowa  
Professor, School of Health, Physical Education and Leisure Services  
Director of the School of Health, Physical Education and Leisure Services — 1991

**\*Frank W. Kohler** — B.A., St. Cloud State University; M.A., Ph.D., University of Kansas  
Associate Professor, Special Education — 1999 (2001)  
Interim Head of the Department of Special Education — 2007

**\*Jill M. Uhlenberg** — B.A., M.A.E., M.A.E., University of Northern Iowa; Ph.D., University of Iowa  
Assistant Professor, Curriculum and Instruction — 2000 (2005)  
Interim Head of the Department of Curriculum and Instruction — 2008

**\*Michael D. Waggoner** — B.A., Wheaton College; M.A., University of Toledo; Ph.D., University of Michigan  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1988 (1997)  
Head of the Department of Educational Leadership, Counseling, and Postsecondary Education — 2007

### College of Humanities and Fine Arts

**\*Reinhold K. Bubser** — Abitur, Ziehen-Realgymnasium (Frankfurt); B.A., Western Michigan University; M.A., Ph.D., Michigan State University

Interim Dean of the College of Humanities and Fine Arts — 2005  
Professor, Modern Languages — 1982 (1984)

**\*Jeffrey S. Copeland** — B.S., University of Missouri-Columbia; M.A., Arkansas State University; Ph.D., University of Missouri-Columbia  
Professor, English — 1981 (1995)  
Head of the Department of English Language and Literature — 1997

**\*John Fritch** — B.A., University of Nebraska-Lincoln; M.A., Ph.D., University of Kansas  
Associate Professor, Communication Studies  
Head of the Department of Communication Studies — 2002

**\*Clifford L. Highnam** — B.A., Western Washington State College; M.S.P.A., University of Washington; Ph.D., Bowling Green State University  
Professor, Communication Sciences and Disorders — 1975 (1994)  
Head of the Department of Communication Sciences and Disorders — 2001

**\*Eric R. Lange** — B.A., Trinity University; M.F.A., Temple University  
Associate Professor, Theatre — 1995 (2001)  
Head of Department of Theatre — 2004

**\*Cheryl A. Roberts** — B.A., Illinois State University; M.A., Ph.D., University of Illinois, Urbana-Champaign

Professor, English — 1986 (2005)  
Head of the Department of Modern Languages — 2006

**\*Jerome P. Soneson** — B.A., North Park College; M.Div., Harvard Divinity School; M.A., Ph.D., Harvard University  
Associate Professor, World Religions — 1991 (1995)  
Interim Head of the Department of Philosophy and World Religions — 2008

**\*John F. Vallentine** — B.M.E., Southeast Missouri State University; M.M., University of Northern Iowa; Ph.D., University of Kentucky  
Professor, School of Music — 1991 (2004)  
Director of the School of Music — 1999

### College of Natural Sciences

**\*Joel K. Haack** — B.A., M.S., M.S., Ph.D., University of Iowa  
Dean of the College of Natural Sciences — 2006  
Professor of Mathematics — 1991

**\*Barton L. Bergquist** — B.S., North Park College; M.S., Northeastern Illinois University; Ph.D., University of Kansas  
Professor, Biology — 1978 (1992)  
Acting Head, Department of Industrial Technology — 2008

**\*C. Clifton Chancey** — B.S., Miami University; M.A., Ph.D., Johns Hopkins University  
Professor, Physics

Head of the Department of Physics — 2001

**\*William S. Harwood** — B.S., University of Massachusetts; Ph.D., Purdue University; Post-doctoral, Eastern Michigan University  
Professor, Chemistry and Biochemistry  
Head of Department of Chemistry and Biochemistry — 2006

**\*Jerry Ridenhour** — B.S., M.A., Central Missouri State College; Ph.D., Arizona State University  
Professor, Mathematics  
Head of the Department of Mathematics — 2003

**David Saunders** — B.S., Oklahoma Panhandle State University; M.S., Emporia State University; Ph.D., Kansas State University  
Professor, Biology — 2008

Head of the Department of Biology

**\*Eugene Wallingford** — B.A., Ball State University; M.S., Ph.D., Michigan State University  
Associate Professor, Computer Science — 1992 (1998)  
Head of Department of Computer Science — 2005

**\*James C. Walters** — B.A., Grand Valley State University, Michigan; M.Phil., Ph.D., Rutgers University  
Professor, Geology — 1975 (1989)  
Head of the Department of Earth Science — 1995

### College of Social and Behavioral Sciences

**\*John W. Johnson** — B.A., St. Olaf College; M.A., Ph.D., University of Minnesota

Professor, History — 1988  
Interim Dean of College of Social and Behavioral Sciences — 2008

**\*Howard L. Barnes** — B.A., Macalester College; M.S., Kansas State University; Ph.D., University of Minnesota  
Associate Professor, Design, Textiles, Gerontology, & Family Studies  
Head of the Department of Design, Textiles, Gerontology, & Family Studies — 1997



**\*Thomas W. Keefe, III** — B.A., University of Colorado; M.S.W., University of Denver; D.S.W., University of Utah  
Professor, Social Work — 1973 (1982)  
Director of the Master of Social Work Program — 2002  
Head of the Department of Social Work — 1990

**\*M. Kimberly MacLin** — B.A., University of California-Riverside; Ph.D., University of Nevada-Reno  
Associate Professor, Psychology — 2001 (2006)  
Acting Head of the Department of Psychology — 2007

**\*Robert F. Martin** — B.A., Wofford College, South Carolina; M.A., Ph.D., University of North Carolina-Chapel Hill  
Professor, History — 1981 (1990)  
Head of the Department of History — 2003

**\*Philip Mauceri** — B.A., M.A., New York University; Ph.D., Columbia University  
Professor, Political Science — 1994 (2005)  
Head of the Department of Political Science — 2005

**Patrick P. Pease** — B.S., M.A., Indiana State University; Ph.D., Texas A&M University  
Associate Professor, Geography  
Head of the Department of Geography — 2006

**\*Kent L. Sandstrom** — B.A., M.A., Ph.D., University of Minnesota  
Professor, Sociology — 1992 (2003)  
Head of Department of Sociology, Anthropology, and Criminology — 2006

## Continuing Education and Special Programs

**James E. Bodensteiner** — B.A., Loras College; M.A., Ed.S., University of Northern Iowa; Ed.D., Drake University  
Dean of the Division of Continuing Education and Special Programs — 1983 (2007)

## Graduate College

**\*Sue A. Joseph** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, School of Health, Physical Education, and Leisure Services — 1990 (2001)  
Interim Dean of the Graduate College (2007)

## University Library

**\*Marilyn Mercado** — B.A., Point Park College; M.L.S., University of Pittsburgh; M.A., University of Northern Iowa  
Dean of Library Services — 2002  
Associate Professor of Library Science — 1989 (1995)

# Emeritus

---

**Janice F. Abel** — B.M.E., M.M.E., Drake University; Ed.D., Indiana University

Director of Academic Advising Services — 1972 (1992)

**Howard Aibel** — B.S., M.S., Juilliard School of Music

Professor, School of Music — 1978 (2007)

**James E. Albrecht** — B.A., M.A., Ed.S., University of Northern Iowa; Ed.D., Indiana University

Professor, Educational Administration and Counseling — 1965 (1990)

**John F. Aldrich** — B.S., University of Rhode Island; M.Ed., Boston University

Professor, Teaching — 1955 (1986)

**Mary Nan Koen Aldridge** — B.S., M.S., Texas A & I University; Ed.S., University of Northern Iowa; Ph.D., Iowa State University

Professor, Curriculum and Instruction — 1967 (1990)

**H. Wendell Alford** — B.A., John B. Stetson University; B.D., Southwestern Baptist Theological Seminary; B.S.L.S., North Texas State University

Associate Professor, Library — 1959 (1986)

Assistant Director of Technical Services of the Library — 1959 (1986)

**Edward W. Amend** — B.A., Midland Lutheran College; M.Div., S.T.M., Lutheran School of Theology-Chicago; Ph.D., University of Chicago

Professor, Religion and Humanities — 1967 (1997)

Head of the Department of Philosophy and Religion — 1993—1997

**B. Wylie Anderson** — B.A., M.A., University of Northern Colorado; M.A.,

University of Denver; Ph.D., University of Iowa

Professor, Economics — 1966 (1999)

**James D. Anderson** — B.S., M.S., Eastern Illinois University

Assistant Professor, Physical Education — 1965 (1992)

**Ruth B. Anderson** — B.A., University of California-Berkeley; M.S.W., Columbia University

Professor, Social Work — 1969 (1990)

**Wayne I. Anderson** — B.A., M.S., Ph.D., University of Iowa

Professor, Geology — 1963 (2000)

**LaVerne W. Andreessen** — B.A., M.A., University of Northern Iowa; CPA

Assistant Professor, Accounting — 1980 (2006)

**C. Murray Austin** — B.A., M.A., Ph.D., University of Pennsylvania

Professor, Geography — 1973 (2003)

**Jackson N. Baty** — B.A., Stanford University; M.A., Ed.S., University of Northern Iowa; Ed.D., Drake University

Assistant Professor, Educational Psychology and Foundations — 1971 (1987)

**Diane L. Baum** — B.A., M.A., University of Northern Iowa

Assistant Professor, Mathematics — 1964 (1997)

**Walter E. Beck** — B.M.E., Knox College; M.A., Ph.D., University of Illinois, Urbana-Champaign

Associate Professor, Computer Science — 1980 (2000)

**James Edward Becker** — B.A., Cornell College; M.A., University of Paris-Sorbonne

Associate Professor, Teaching — 1970 (1999)

**Judy Markham Beckman** — B.A., M.A., University of Northern Iowa; Ph.D., University of Minnesota

Assistant Professor, Teaching — 1969 (2001)

Coordinator of Student Teaching

**Mary Green Beckman** — B.M., Oberlin Conservatory of Music; M.M., Cleveland Institute of Music

Professor, School of Music — 1947 (1990)

**Harold E. Bernhard** — B.A., Carthage College, Illinois; B.D., Chicago Lutheran Theological Seminary; Ph.D., University of Chicago

Director of the Bureau of Religious Activities

Professor, Religion — 1949 (1974)

**M. Roger Betts** — B.A., University of Northern Iowa; M.A.E., Ball State University; Ed.D., Arizona State University

Associate Professor, Industrial Technology — 1975 (2001)

**Hugo L. Beykirch** — B.A., M.A., Ph.D., Wayne State University

Associate Professor, Audiology — 1974 (1999)

**Steven E. Bigler** — B.A., M.F.A., University of Minnesota

Professor, Art — 1978 (2003)

**Mary E. Blanford** — B.A., Central Normal College, Indiana; M.S., Indiana University

Assistant Professor, Business Education and Administrative Management — 1961 (1982)

**David R. Bluhm** — B.A., Princeton University; B.Th., Princeton Theological Seminary; M.A., Ph.D., University of Pittsburgh

Professor, Philosophy and Religion — 1954 (1977)

**Emil W. Bock** — B.M., M.M., Northwestern University; Ph.D., University of Iowa

Professor, School of Music — 1939 (1984)

**Myra R. Boots** — B.A., Grinnell College; M.A., University of Northern Iowa

Assistant Professor, Speech-Language Pathology — 1965 (1995)

**Lynn A. Brant** — B.S., M.S., D.Ed., Pennsylvania State University

Associate Professor, Geology — 1982 (2007)

**Ronald D. Bro** — B.A., M.A., University of Northern Iowa; Ed.D., University of Nebraska

Professor, Industrial Technology — 1967 (1992)

**Leander A. Brown** — B.A., Fisk University; M.A., Roosevelt University; Ph.D., Iowa State University

Assistant Professor, Educational Psychology and Foundations — 1970 (2007)

**John E. Bruha** — B.S., University of Wisconsin-Stevens Point; M.S., University of Wisconsin-Madison

Assistant Professor, Mathematics — 1959 (1997)

**David J. Buch** — B.F.A., School of the Art Institute-Chicago; B.A., Northeastern Illinois University; M.M., Ph.D., Northwestern University

Professor, Music History — 1985 (2007)

**Ron D. Camarata**

Biology Greenhouse and Preserves Manager — 1968 (2004)

**G. Scott Cawelti** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa

Professor, English — 1968 (2007)

**James C. Chang** — B.S., Mount Union College, Ohio; Ph.D., University of California-Los Angeles

Professor, Chemistry — 1964 (1995)

**Bruce A. Chidester** — B.M., Augustana College, Illinois; M.M., Northern Illinois University

Assistant Professor, School of Music — 1969 (1999)

**Tieh-Cheng Chin** — B.A., National Northeastern University, China; M.A., M.L.S., University of Washington; A.M.L.S., Florida State University

Associate Professor, Library Science and Bibliographer — 1971 (1985)

**Ronald A. Chung** — B.S., Holy Cross College; M.S., Ph.D., Purdue University

Professor, Design, Family and Consumer Sciences — 1986 (1999)

**Robert E. Claus** — B.A., University of Northern Iowa; M.A., Ph.D., University of Iowa

Professor, Sociology — 1959 (1992)

**Phyllis B. Conklin** — B.S., Carson-Newman College, Tennessee; M.S., Ohio University; Ph.D., University of Tennessee-Knoxville  
Assistant Professor, Design, Family and Consumer Sciences — 1968 (1997)

**R. Forrest Conklin** — B.A., Howard Payne College; M.A., Baylor University; Ph.D., Ohio University  
Professor, Communication Studies — 1968 (1997)

**John E. Conner** — B.S., University of Illinois; M.A., Western Illinois University  
Vice President for Administration and Finance — 1984 (2000)

**Lee E. Courtneage** — B.A., Nebraska State Teachers College; M.A., Colorado State College; Ed.D., University of Northern Colorado  
Professor, Special Education — 1968 (1994)

**Elinor Ann Crawford** — B.A., M.A., University of California-Berkeley; Ph.D., University of Oregon  
Professor, Physical Education for Women  
Head of the Department of Physical Education for Women — 1949 (1979)

**John S. Cross** — B.S., M.S., University of Illinois-Urbana  
Assistant Professor, Mathematics — 1963 (1999)

**David R. Crownfield** — A.B., Harvard University; B.D., Yale University; Th.M., Th.D., Harvard University  
Professor, Philosophy and Religion — 1964 (1998)

**Eleanor B. Crownfield** — B.A., Smith College; M.S.L.S., Simmons College  
Assistant Professor and Catalog Librarian — 1964 (1996)

**Donald G. Cummings** — B.A., Coe College; Ph.D., Tulane University  
Assistant Professor, Economics — 1963 (1998)

**Barbara J. Darling** — B.A., University of Northern Iowa; M.A., University of Northern Colorado  
Associate Professor, Physical Education — 1958 (1985)

**Donald R. Darrow** — B.A., M.A., University of Northern Iowa; Ph.D., Ohio State University  
Associate Professor, Teaching — 1973 (2002)

**Chandrasekhar Das** — B.A., University of Calcutta, India; M.A., University of Delhi, India; M.S., Ph.D., Case Western Reserve University  
Professor, Management — 1986 (2006)

**Darrel W. Davis** — B.A., M.A., University of Northern Iowa; Ph.D., Oklahoma State University; CPA  
Associate Professor, Accounting — 1969 (2005)

**George F. Day** — B.A., Dartmouth College; M.A.T., Harvard University; Ph.D., University of Colorado  
Professor, English — 1967 (1994)

**Charles V. Dedrick** — B.A., Brown University; M.A.T., Rollins College; M.Ed., Ed.D., University of Florida  
Professor, Educational Psychology and Foundations — 1971 (1999)

**Walter E. DeKock** — B.A., Central College; M.A., University of Northern Iowa; Ph.D., Ohio State University  
Associate Professor, Science Education — 1964 (1992)

**Ervin A. Dennis** — B.A., M.A., University of Northern Colorado; Ed.D., Texas A&M University  
Professor, Industrial Technology — 1973 (1998)

**Joan E. Diamond** — B.A., Knox College; M.S., University of Illinois  
Associate Professor, Teaching — 1957 (1990)

**Saul L. Diamond** — B.S., Syracuse University; M.B.A., Wharton School of Business, University of Pennsylvania  
Associate Professor, Marketing — 1967 (1991)  
Director of the Small Business Institute

**Henry T. Dohrman** — A.B., Nebraska State College; S.T.B., Ph.D., Harvard University

Professor, Sociology, Anthropology and Social Work — 1949 (1982)

**Susann G. Doody** — B.S., Northern Illinois University; M.S., University of Wisconsin; Ph.D., University of Southern California  
Professor, Physical Education — 1977 (2000)

**Gregory M. Dotseth** — B.A., Luther College; M.A., Western Washington University; Ph.D., Iowa State University  
Associate Professor, Mathematics — 1966 (2003)

**James L. Doud** — B.S.E., M.S.E., Drake University; Ph.D., University of Iowa  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1978 (1994)

**Richard S. Douglas** — A.B., J.D., Duke University; Ed.S., Rutgers University Graduate School of Education  
University Risk Manager — 1976 (1990)

**Virgil E. Dowell** — B.S., M.S., Kansas State Teachers College; Ph.D., University of Oklahoma  
Professor, Biology — 1956 (1988)

**Darlyce A. Drum**  
Administrative Assistant, Vice President for Administration and Finance — 1957 (1997)

**Jacques F. DuBois** — B.S., Kearney State College; M.A., University of Nebraska  
Assistant Professor, Modern Languages — 1966 (2003)

**Jerry M. Duea** — B.A., M.A., University of Northern Iowa; Ph.D., Iowa State University

Professor, Educational Psychology and Foundations — 1966 (1997)  
Coordinator, Research and Evaluation Studies — 1992-1997

**Joan M. Duea** — B.A., M.A., University of Northern Iowa  
Professor, Curriculum and Instruction — 1965 (1997)

**David R. Duncan** — B.S., M.S., North Dakota State University; Ph.D., University of Michigan  
Professor, Mathematics — 1963 (2005)

**Norris M. Durham** — B.S., West Chester State College, Pennsylvania; M.A., New York University; Ph.D., Pennsylvania State University  
Professor, Anthropology — 1979 (2002)

**Mary K. Eakin** — B.A., Drake University; B.L.A., M.A., University of Chicago

Associate Professor, Curriculum and Instruction — 1958 (1968)

**Charlene M. Eblen** — B.A., University of Wichita; M.A., University of Northern Iowa

Associate Professor, English — 1967 (1992)

**frje echeverria** — B.A., Florida Presbyterian College; M.F.A., University of Arkansas

Professor, Art — 1969 (2007)

**Ivan L. Eland** — B.A., University of Northern Iowa; M.A., University of Colorado

Associate Professor, Curriculum and Instruction  
Director of Safety Education — 1960 (1989)

**Robert Eller** — B.A., M.A., University of Iowa  
Assistant Professor, Curriculum and Instruction  
Coordinator of Audio-Visual Services — 1961 (1991)

**Clark K. Elmer** — B.A., University of Michigan; M.A., Michigan State University

Director of Enrollment Management and Admissions — 1972 (2004)  
Interim Director of The Career Center — 2001-2004

**Ralph D. Engardt** — B.S., Ph.D., Iowa State University  
Associate Professor, Physics — 1965 (1995)

**Donald R. Erusha** — B.A., Coe College; M.A., University of Iowa  
Associate Professor, Physical Education — 1963 (2000)

## Emeritus

- Russell E. Euchner** — B.A., M.A., University of Northern Iowa  
Assistant Professor, Curriculum and Instruction — 1960 (1991)
- Manuel A. Febles** — B.A., B.S., Instituto de Cardenas, Cuba; Doctor in  
Law, Universidad de la Habana, Cuba; M.A., Ph.D., University of  
Iowa  
Professor, Modern Languages — 1967 (1984)
- Rosa Maria E. Findlay** — B.A., University of Puerto Rico; M.A.,  
University of Northern Iowa  
Instructor, Teaching — 1964 (2001)
- D. Louis Finsand** — B.S., University of Wisconsin—LaCrosse; M.A.,  
University of Northern Iowa  
Professor, Teaching — 1964 (1997)
- Adolfo Mariano Franco** — B.A., Instituto de Cardenas, Cuba; Doctor in  
Law, Universidad de la Habana, Cuba; M.A., Ph.D., University of  
Iowa  
Professor, Modern Languages — 1967 (1993)
- Mary L. Franken** — B.S., University of Wisconsin—Stout; M.S.,  
University of Wisconsin—Madison; Ed.D., Drake  
University  
Professor, Design, Family and Consumer Sciences — 1969 (1998)
- Joseph E. Fratianni** — B.S., Bridgewater State College; M.S., Ph.D.,  
University of Wisconsin-Madison  
Assistant Professor, Teaching and Coordinator of Student Teaching —  
1971 (1991)
- Arnold J. Freitag** — B.S., Purdue University; M.S., Iowa State University  
Assistant Professor, Industrial Technology — 1968 (1991)
- Taggart F. Frost** — B.S., M.S., Ph.D., Brigham Young University  
Associate Professor, Management — 1978 (2006)
- Gail E. Froyen** — B.A., M.A., University of Northern Iowa  
Instructor, Teaching — 1990 (1998)
- Len A. Froyen** — B.A., University of Northern Iowa; M.A., Michigan  
State University; Ed.D., Indiana University  
Professor, Educational Psychology & Foundations — 1958 (1994)
- Sarah J. Frudden** — B.A., M.A., Ed.S., University of Northern Iowa;  
Ph.D., Iowa State University; Ph.D., University of Wisconsin-  
Madison  
Assistant Professor, Teaching and Coordinator of Student Teaching —  
1974 (1992)
- Joyce A. Gault** — B.A., University of Northern Iowa; M.M., D.M.,  
Northwestern University  
Professor, School of Music — 1957 (1993)
- Albert R. Gilgen** — B.A., Princeton University; M.A., Kent State  
University; Ph.D., Michigan State University  
Professor, Psychology — 1973 (2001)
- Charles C. Gillette** — B.S., Iowa State University; M.A., University of  
Northern Iowa; Ph.D., Oklahoma State University  
Associate Professor, Economics — 1966 (1991)
- Robert F. Gish** — B.A., M.A., Ph.D., University of New Mexico  
Professor, English — 1967 (1999)
- George David Glenn** — A.B., Shimer College; M.A., Northern Illinois  
University; Ph.D., University of Illinois  
Professor, Theatre — 1966 (2000)
- Ralph M. Goodman** — B.A., M.A., Ph.D., University of California-Los  
Angeles  
Associate Professor, English — 1964 (1988)
- Robert C. Goss** — B.S., Huntington College; M.S., Ph.D., Purdue  
University  
Professor, Biology — 1961 (1991)
- Peter G. Goulet** — B.A., Denison University; M.B.A., Ph.D., Ohio State  
University  
Professor, Management — 1974 (2007)  
T. Wayne Davis Chair of Entrepreneurial Studies
- Jack E. Graham** — B.M.E., Wichita State University; M.M., North Texas  
State University  
Professor, School of Music — 1967 (2004)
- Donald W. Gray** — A.B., Asbury College; B.D., Emory University;  
M.A.L.S., University of Minnesota  
Associate Professor, Library  
Assistant Director of Public Services — 1967 (1990)
- Elton E. Green** — B.S., M.S., Kansas State University; Ed.D., University  
of Northern Colorado  
Professor, Physical Education — 1968 (1990)
- Kenneth N. Green** — B.S., Iowa State University; M.A., University of  
Northern Iowa; Ed.D., University of Arkansas  
Associate Professor, Physical Education — 1967 (2000)
- Wanda K. Green** — B.A., M.A., Ed.D., University of Northern Colorado  
Assistant Professor, Physical Education — 1967 (1998)
- Leslie W. Hale** — B.M.E., M.M.E., Drake University; M.A., University  
of Missouri-Kansas City; D.M.A., University of Missouri  
Professor, Teaching — 1960 (1988)
- G. Jon Hall** — B.A., Central State College, Oklahoma; M.A., Ph.D.,  
Southern Illinois University  
Associate Professor, Communication Studies — 1973 (2001)
- Fred W. Hallberg** — B.A., M.A., University of Minnesota; M.S., Iowa  
State  
University; Ph.D., University of Minnesota  
Associate Professor, Philosophy — 1967 (1998)
- Gaylon L. Halverson** — B.A., Luther College; M.A., University of  
Northern Iowa; D.B.A., Indiana University; CPA  
Professor, Accounting — 1963 (1997)
- Albert C. Haman** — B.A., University of Iowa; M.A., Michigan State  
University  
Associate Professor, Biology — 1961 (1988)
- Nellie D. Hampton** — B.S., Central Missouri State University; M.A.,  
State University of Iowa; Ph.D., University of Wisconsin  
Professor, Curriculum and Instruction — 1945 (1981)
- Glenn L. Hansen** — B.A., M.A., University of Northern Iowa; Ph.D.,  
Texas A&M University  
Associate Professor, Management  
Dean of the Division of Continuing Education and Special Programs —  
1964 (2001)
- Jon Edward Hansen** — B.A., M.A., University of Northern Iowa  
Associate Professor, School of Music — 1969 (1993)
- Thomas W. Hansmeier** — B.A., M.A., University of Northern Iowa;  
Ed.D., Michigan State University  
Professor, Educational Administration and Counseling  
Coordinator of Continuing Education, College of Education — 1971  
(1991)
- Alden B. Hanson** — B.A., St. Olaf College; M.Ph., University of  
Wisconsin  
Associate Professor, English  
Foreign Student Advisor — 1946 (1975)
- Roger J. Hanson** — B.S., Gustavus Adolphus College; M.A., Ph.D.,  
University of Nebraska  
Professor, Physics — 1969 (1997)
- James N. Hantula** — B.A., M.A., University of Michigan  
Associate Professor, Teaching — 1965 (1998)
- Robert R. Hardman** — B.S., Maryland State Teachers College; M.S.,  
Ed.D., Indiana University  
Professor, Curriculum and Instruction  
Director of Training Services, Information Technology Services — 1970  
(1999)

- Jeanne McLain Harms** — B.A., M.A.E., Ed.S., University of Northern Iowa; Ph.D., Ohio State University;  
Professor, Curriculum and Instruction — 1961 (1999)
- Gordon M. Harrington** — B.E.E., Georgia Institute of Technology; Ph.D., Yale University  
Professor, Psychology — 1963 (1992)
- Judith F. Harrington** — B.S., Boston College; M.A., University of Iowa  
Assistant Professor, Speech—Language Pathology — 1965 (2003)
- Robert A. Hartman** — B.S., M.A., Ball State University  
Director of Residence — 1977 (2004)
- Virginia R. Hash** — B.S., Iowa State University; M.A., Ed.S., University of Northern Iowa; Ph.D., Iowa State University  
Director of Culture and Intensive English Program  
Director of International Program Development — 1966 (1999)
- Richard R. Hawkes** — B.S., Municipal University of Omaha; M.S., University of Nebraska-Omaha; Ph.D., University of Nebraska-Lincoln  
Professor, Teaching and Coordinator of Student Teaching — 1969 (2003)
- Argelia C. Hawley** — B.S., Kearney State College  
Instructor of Teaching: Elementary Foreign Language — 1983 (1997)
- D. C. Hawley** — B.A.Ed., Kearney State College; M.A., Ph.D., University of Iowa  
Professor, Modern Languages — 1966 (1998)
- Marvin O. Heller** — B.S., M.E., University of Nebraska; Ed.D., University of Northern Colorado  
Professor, Curriculum and Instruction — 1970 (1997)
- Louis R. Hellwig** — B.A., M.A., New Mexico State University; Ph.D., University of Missouri-Columbia  
Assistant Professor, Psychology — 1964 (1997)
- Bill Henderson** — B.A., Central State College, Oklahoma; M.A., University of Houston; Ph.D., University of Minnesota  
Associate Professor, Communication Studies — 1978 (2001)
- Glen F. Henry** — B.S., M.S., Nebraska State College-Chadron  
Associate Professor, Physical Education — 1966 (2004)
- Clifford H. Herrold** — B.A., Central State University, Oklahoma; M.A., Colorado State University; Ed.D., Stanford University  
Professor, Art — 1947 (1978)
- Barbara A. Hetrick** — B.A., Ohio Wesleyan University; M.S., Washington State University; Ph.D., Oregon State University  
Professor, Biology  
Head of the Department of Biology — 1994 (2007)
- Douglas M. Hieber** — A.B., Cornell College; M.S.L.S., University of Illinois  
Associate Professor and Head of Circulation — 1967 (1992)
- Thomas W. Hill** — B.S., University of Wisconsin; Ph.D., University of Pennsylvania  
Professor, Anthropology — 1972 (2002)
- Joseph F. Hohlfield** — B.A., Hastings College; M.B.S., University of Colorado; Ed.D., Indiana University  
Associate Professor, Teaching — 1978 (1988)
- A. John Holstad** — B.S., Northern State College, South Dakota; M.M., D.M., Northwestern University  
Associate Professor, School of Music — 1962 (1999)
- Max M. Hosier** — B.A., Nebraska State Teachers College, Peru; M.A., Ed.D., University of Northern Colorado  
Professor, Curriculum and Instruction — 1951 (1988)
- Grace Ann Hovet** — B.A., College of St. Catherine; M.A., University of Minnesota; Ph.D., University of Kansas  
Professor, English — 1969 (1999)
- Theodore R. Hovet** — B.S., North Dakota State College; M.A., University of Minnesota; Ph.D., University of Kansas  
Professor, English — 1969 (1999)
- Sharon Huddleston** — B.S., M.Ed., Stephen F. Austin State University; Ph.D., University of Iowa  
Professor, Physical Education — 1973 (2003)
- Gerald W. Intemann** — B.S., M.S., Ph.D., Stevens Institute of Technology  
Professor, Physics — 1980 (2000)  
Dean of the College of Natural Sciences — (1991-2000)
- Margaret F. Ishler** — B.A., M.A., Pennsylvania State University; Ed.D., University of Toledo  
Professor, Curriculum and Instruction — 1990 (2000)
- Dale R. Jackson** — B.S.Ed., M.S.Ed., Ed.S., Western Illinois University; Ed.D., Northern Illinois University  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1987 (2002)
- Vivian R. Jackson** — B.A., Rosary College; M.Ed., DePaul University; Ph.D., Northwestern University  
Associate Professor, Educational Leadership, Counseling, and Postsecondary Education  
Associate Dean for Student Services, Graduate College — 1990 (2002)
- Mary Ann Jackson** — B.S., M.S., University of Arkansas  
Assistant Professor, Teaching — 1953 (1981)
- Edward Jamosky** — B.A., M.A., M.A., University of Wisconsin  
Assistant Professor, Modern Languages — 1965 (1994)
- Allen D. Jedlicka** — B.A., San Diego State University; Ph.D., Northwestern University  
Professor, Management — 1973 (2006)
- Carl R. Jenkins** — B.A., M.A., University of Northern Iowa  
Assistant Director of Broadcasting/Programming — 1962 (1976)
- John H. Jennett** — B.S., M.A., Drake University  
Associate Professor, Physical Education for Men — 1962 (1976)
- Marvin D. Jensen** — B.A., Midland Lutheran College; M.A., University of Kansas  
Assistant Professor, Communication Studies — 1966 (2000)
- Verner Jensen** — B.S., University of Nebraska; M.S., Iowa State University  
Professor, Physics — 1956 (1991)
- M. Lathon Jernigan** — B.M., M.M., Southern Methodist University; D.M.A., University of Texas-Austin  
Professor, School of Music — 1971 (2005)
- Valdon L. Johnson** — B.A., M.A., University of Northern Iowa  
Assistant Professor, English — 1968 (1994)
- Howard V. Jones** — B.A., M.A., Ph.D., Harvard University  
Professor, History — 1954 (1991)
- Elaine B. Kalmar** — B.A., M.A., Ph.D., University of New Mexico  
Associate Professor, English — 1971 (1999)
- John J. Kamerick** — B.A., St. Ambrose; M.A., Ph.D., University of Iowa  
Professor, History — 1970 (1986)  
President (1970-1983)
- Lawrence L. Kavich** — B.S., M.S., Ed.D., University of California-Los Angeles  
Professor, Educational Psychology and Foundations — 1977 (1994)
- Lawrence W. Kieffer** — B.A., M.A., University of Minnesota  
Associate Professor and Head of Reference Department — 1969 (1996)
- Carey H. Kirk** — B.A., Princeton University; M.A., University of Virginia; Ph.D., Vanderbilt University; J.D., University of Iowa  
Assistant Professor, Management — 1983 (2004)
- Aurelia L. Klink** — B.A., M.A., University of Northern Iowa  
Director of Non-Credit Programs  
Assistant Professor, Management — 1966 (2002)

## Emeritus

- Susan J. Koch** — B.S., Dakota State College; M.A., Ed.D., University of Northern Iowa  
Professor, Health Promotion and Education — 1983 (2007)  
Associate Provost and Associate Vice President for Academic Affairs — 2001-2007  
Dean of the Graduate College — 2005-2007
- Fritz H. Konig** — B.A., University of Heidelberg; Candidatus Magisterii, University of Oslo; M.A., Ph.D., University of Iowa  
Professor, Modern Languages — 1967 (2002)
- Robert D. Koob** — B.A., University of Northern Iowa; Ph.D., University of Kansas  
President of the University — (1995-2006)  
Professor, Chemistry — 1995 (2006)
- Jurgen Koppensteiner** — Ph.D., University of Graz, Austria  
Professor, Modern Languages — 1968 (2007)
- Robert E. Kramer** — B.A., M.A., University of North Dakota  
Assistant Professor, Sociology — 1965 (1998)
- Marilou DeWall Kratzenstein** — B.A., Calvin College; M.A., Ohio State University; D.M.A., University of Iowa  
Professor, School of Music — 1975 (2002)
- Marian E. Krogmann** — B.S., South Dakota State University; M.A., Ph.D., University of Iowa  
Associate Professor, Political Science — 1967 (1995)
- \*Dean A. Kruckeberg** — B.A., Wartburg College; M.A., Northern Illinois University-DeKalb; Ph.D., University of Iowa  
Professor, Public Relations — 1983 (2008)
- Raymond Kuehl** — B.A., Upper Iowa University; M.A., University of Iowa; Ed.S., Drake University; Ph.D., University of Iowa  
Professor, Teaching and Coordinator of Student Teaching — 1966 (1988)
- Loretta S. Kuse** — B.S., University of Wisconsin—Stevens Point; M.A., Ph.D., University of Iowa; M.Div., Wartburg Theological Seminary  
Assistant Professor, Curriculum and Instruction — 1972 (2001)
- Geraldine E. LaRocque** — B.S., M.A., University of Minnesota; Ph.D., Stanford University  
Professor, English  
University Liaison for Teacher Education — 1973 (1991)
- James P. LaRue** — B.S., Southeast Missouri State College; M.A., Colorado State College of Education; Ed.D., Pennsylvania State University  
Professor, Industrial Technology — 1956 (1986)
- Robert D. Leahy** — B.S., Valparaiso University, Indiana; M.A. University of Iowa  
Registrar — 1976 (1991)
- Key Ton Lee** — B.A., Union College, Nebraska; M.A., Andrews University, Michigan; Ph.D., University of Oklahoma  
Professor, Educational Psychology and Foundations — 1967 (1994)
- Robert T. Lembke** — B.S., M.S., Mankato State College; Ed.D., University of South Dakota  
Associate Professor, Educational Administration and Counseling — 1974 (1993)
- William W. Lew** — B.A., Central Washington State College; M.F.A., University of Oregon; Ph.D., Ohio University  
Professor, Art  
Head of the Department of Art — 1985 (1998)
- Thomas L. Little** — B.A., Macalester College; M.Ed., University of Mississippi; Ed.D., Memphis State University  
Associate Professor, Special Education — 1973 (2004)
- Bonnie H. Litwiller** — B.S.Ed., M.S.Ed., Illinois State University; M.A.T., Ed.D., Indiana University  
Professor, Mathematics — 1968 (2003)
- John C. Longnecker** — B.A., M.A., University of Northern Iowa  
Assistant Professor, Mathematics — 1966 (1999)
- Joan K. Loslo** — B.A., Wartburg College; M.A., University of Iowa; M.A., University of Northern Iowa  
Assistant Professor and Cataloging Librarian and Bibliographer — 1987 (2005)
- Barbara S. Lounsberry** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, English — 1976 (2006)
- Jonathan J. Lu** — B.Ed., Taiwan Normal University; B.D., Asbury Theological Seminary; M.A., Ohio State University; Ph.D., University of Washington  
Professor, Geography — 1973 (1992)
- H. Lewis Lynch** — B.S., M.Ed., University of Nebraska; D.Ed., University of Wyoming  
Associate Professor, Teaching and Coordinator of Student Teaching — 1951 (1987)
- Gordon Mack** — B.A., Southern University; M.A., New York University  
Director of American Humanities — 1993 (2004)
- James G. Macmillan** — B.A., Western Washington State College; Ph.D., Ohio State University  
Associate Professor, Chemistry — 1972 (2001)
- H. Kent Macomber** — B.S., M.S., University of California-Berkeley; Ph.D., Harvard University  
Professor, Physics — 1976 (2000)
- Barbara J. Mardis** — B.A., Shimer College; M.B.A., University of Northern Iowa  
Instructor, Economics — 1981 (2004)
- Jeanette J. Marsh** — B.S., Mankato State College; M.S., University of New Mexico; Ph.D., University of Minnesota  
Assistant Professor, Physical Education — 1975 (2002)
- Elizabeth A. Martin** — B.A., Wartburg College; M.A., University of Minnesota  
Associate Professor, Curriculum and Instruction: Library Science  
Head of the Department of Library Science — 1962 (1991)
- A. Marleta Matheson** — B.M.E., Simpson College; M.M., University of Michigan  
Associate Professor, School of Music — 1964 (1991)
- Charles D. Matheson** — B.M., M.M., University of Michigan  
Professor, Voice — 1955 (1982)
- David V. McCalley** — B.A., M.A., University of Northern Iowa; Ed.D., University of Northern Colorado  
Professor, Biology and Science Education — 1966 (1999)
- Clifford G. McCollum** — B.S., M.A., Ed.D., University of Missouri  
Professor, Biology — 1949 (1984)  
Dean of the College of Natural Sciences — (1968—1984)
- Norman L. McCumsey** — B.S., Oregon College of Education; M.Ed., University of Oregon; Ed.D., Colorado State College  
Associate Professor, Educational Administration and Counseling — 1967 (1993)
- Daniel L. McDonald** — B.S., M.S., Ed.D., Oklahoma State University  
Assistant Professor, Leisure, Youth and Human Services — 1985 (2002)
- G. Douglas McDonald** — B.S., University of Pennsylvania; M.S., University of Minnesota  
Assistant Professor, Marketing — 1963 (1973)
- LeRoy A. McGrew** — B.A., Knox College, Illinois; M.S., Ph.D., University of Iowa  
Professor, Chemistry — 1977 (2003)
- Kent A. McIntyre** — B.A., University of Iowa; M.A., University of Denver  
Associate Professor, Teaching — 1968 (1990)

- Keith F. McKean** — A.B., Williams College; M.A., University of Chicago; Ph.D., University of Michigan  
Professor, English — 1968 (1980)
- Charles L. Means** — B.S., Southern Illinois University; M.A., Webster College; Ph.D., St. Louis University  
Adjunct Associate Professor, Educational Psychology and Foundations  
Associate Vice President for Academic Affairs — 1983 (2004)  
Director of Educational Opportunity Programs and Special Community Services
- Jane C. Mertesdorf** — B.S., Mankato State College; M.A., Ball State University; Ph.D., Iowa State University  
Assistant Professor, Leisure Services — 1966 (2000)  
Coordinator of Leisure Services Division — (1993—2000)
- Hattie M. Middleton** — B.S., Florida A&M University; M.A., University of Northern Iowa; Ph.D., Kansas State University  
Assistant Professor, Design, Family and Consumer Sciences — 1988 (2000)
- Michael H. Millar** — B.A., Harvard University; M.S., Ph.D., University of Chicago  
Professor, Mathematics — 1962 (2000)
- David L. Morgan** — B.A., Swarthmore College; M.A., Washington University, St. Louis  
Assistant Professor, Philosophy — 1965 (2004)
- Janice M. Morgan** — B.S., M.Ed., University of Missouri-Columbia; Ph.D., Iowa State University  
Associate Professor, Design, Family and Consumer Sciences — 1972 (1998)
- Robert E. Morin** — B.A., M.S., Northwestern University; Ph.D., University of Wisconsin-Madison  
Professor, Psychology — 1972 (1986)  
Dean of the College of Social and Behavioral Sciences — (1972-1985)
- Raul Munoz** — B.A., M.A., University of Nebraska; M.A., Ph.D., Michigan State University  
Professor, Modern Languages — 1963 (1996)
- Gretchen M. Myers** — B.A., University of Iowa; M.A.L.S., Rosary College  
Assistant Professor and Reference Librarian — 1967 (1989)
- Judy L. Myers** — B.A., University of Iowa; M.A., University of Wisconsin  
Assistant Professor and Catalog Librarian — 1967 (1996)
- Hyo C. Myung** — B.S., M.S., Seoul National University, Korea; Ph.D., Michigan State University  
Professor, Mathematics — 1970 (1998)
- Phillip J. Nelson** — B.S., Augustana College, South Dakota; M.A., University of Nebraska-Omaha  
Assistant Professor, Teaching — 1969 (2000)
- Lee H. Nicholas** — B.S.B.A., University of Kansas; M.B.A., University of Tulsa; CPA, CMA  
Assistant Professor, Accounting — 1974 (2007)
- Samuel Nodarse** — B.A., Colegio de la Salle (Havana); Doctorate of Social Sciences, Doctorate of Law, Universidad de la Habana, Cuba; Ph.D., University of Illinois-Urbana  
Professor, Modern Languages — 1964 (1988)
- Lowell Norland**  
Director, Iowa Training Opportunities Program, Business and Community Services — 1987 (2004)
- Michael David Oates** — A.B., Fairfield University; M.A.T., Assumption College; Ph.D., Georgetown University  
Professor, Modern Languages — 1967 (2003)
- Earl G. Ockenga** — B.S., Augustana; M.S., University of South Dakota  
Associate Professor, Teaching — 1988 (1999)
- Karl Edward Odwarka** — Diploma, Akademie fuer Welthandel, Frankfurt; A.B., M.A.T., Wayne State University; Ph.D., University of Michigan  
Professor, German — 1964 (1991)
- Jons C. Olsson** — B.A., Thiel College  
Assistant Director of Broadcasting/Development — 1978 (2000)
- Alan R. Orr** — B.A., Simpson College; M.S., Ph.D., Purdue University  
Professor, Biology — 1965 (1998)
- John H. Page** — B. of Design, University of Michigan; M.F.A., University of Iowa  
Professor, Art — 1954 (1987)
- Eugenia G. Parisho** — B.A., University of Northern Iowa; M.A., University of Chicago  
Assistant Professor, Teaching — 1968 (1989)
- Barbara E. Pershing** — B.S., Western Illinois University; M.A., University of Northern Colorado; Ph.D., Iowa State University  
Associate Professor, Design, Family and Consumer Sciences — 1971 (1996)
- Rex W. Pershing** — B.S., Western Illinois University; M.A.Ed., University of Northern Iowa; Ed.D., University of Northern Colorado  
Associate Professor, Industrial Technology — 1965 (1992)
- Warren E. Picklum** — B.A., Colorado State University; M.S., Ph.D., Iowa State University  
Associate Professor, Biology — 1957 (1987)
- Douglas T. Pine** — B.S., State University of New York-Oswego; M.A., Trenton State College; Ph.D., Ohio State University  
Associate Professor, Industrial Technology — 1973 (2000)
- Aaron Mayer Podolefsky** — B.A., California State University-San Jose; M.A., M.A., Ph.D., State University of New York—Stony Brook  
Provost and Vice President — 1999-2005  
Professor, Anthropology — 1990 (2005)
- Paul J. Porter** — B.A., M.A., Ed.S., University of Northern Iowa; Ed.D., Drake University  
Associate Professor, Educational Psychology and Foundations — 1967 (1997)
- James Price** — B.S.Ed., A.B., University of Missouri; M.A.Ed., University of Northern Iowa  
Assistant Professor, Teaching — 1963 (1983)
- Charles E. Quirk** — B.A., Carroll College, Wisconsin; B.Div., McCormick Theological Seminary-Chicago; Ph.D., University of Iowa  
Associate Professor, History — 1963 (2001)
- Lora Lee Rackstraw** — B.A., Grinnell College; M.F.A., University of Iowa  
Associate Professor, English — 1966 (1996)
- Ned H. Ratekin** — B.A., Parsons College; M.A., Ph.D., University of Iowa  
Professor, Curriculum and Instruction — 1965 (1992)
- Jack C. Reed** — B.A., M.A., University of Northern Iowa; Ed.D., University of Nebraska-Lincoln  
Associate Professor, Business Education — 1965 (1990)
- Erwin W. Richter** — B.S., Northern Michigan University; M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, Chemistry — 1963 (1996)
- Dixon L. Riggs** — B.A., Marietta College; M.S., University of Michigan  
Associate Professor, Biology — 1958 (1987)
- Verna F. Ritchie** — B.A., Hunter College; M.A., McGill University; M.A.L.S., University of Michigan  
Professor and Art and Music Librarian — 1966 (1991)

## Emeritus

- Janet M. Rives** — B.A., University of Arizona; M.A., Ph.D., Duke University  
Professor, Economics — 1984 (2004)
- Jan C. Robbins** — B.A., Pennsylvania State University; M.A., Ph.D., University of Minnesota  
Professor, English — 1976 (2005)
- James B. Roberson** — B.S., Middle Tennessee State Teachers College; M.A., George Peabody College for Teachers  
Associate Professor, Teaching and Coordinator of Student Teaching 1964 (2004)
- Ronald E. Roberts** — B.A., Drake University; M.A., Ph.D., Louisiana State University  
Professor, Sociology — 1969 (2001)
- Bruce G. Rogers** — B.A., M.A., Arizona State University; Ph.D., Michigan State University  
Professor, Educational Psychology and Foundations — 1975 (2004)
- Thomas P. Romanin** — B.S., M.A., Kent State University; Ph.D., St. Louis University  
Associate Vice President for Educational and Student Services — 1976 (2004)  
Associate Professor, Educational Leadership, Counseling, and Postsecondary Education
- Robert L. Ross** — B.A., University of Northern Iowa; M.A., Columbia University; Ph.D., Michigan State University  
Professor, Political Science — 1962 (1996)
- Betts A. Roth** — B.S., George Peabody College for Teachers; M.A., Columbia University  
Associate Professor, Teaching — 1951 (1976)
- Clair D. Rowe** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, Marketing — 1986 (1991)
- Robert L. Rule** — B.S., M.S., Ph.D., Iowa State University  
Assistant Professor, Mathematics — 1966 (1998)
- Edward Rutkowski** — B.S., Marquette University; M.A., Ph.D., Michigan State University  
Professor, Educational Psychology and Foundations — 1963 (1990)
- Thomas G. Ryan** — B.S.C., M.A., University of Iowa  
Associate Professor, History — 1960 (1993)
- Roy E. Sandstrom** — A.B., Williams College; M.A., Ph.D., State University of New York-Buffalo  
Associate Professor, History — 1969 (2004)
- Otis R. Schmidt** — B.J., M.J., University of Texas-Austin; M.A., Sam Houston State College  
Assistant Professor, English Language and Literature — 1965 (1988)
- Donald W. Schmits** — B.A., University of Evansville; M.A., Southern Illinois University; Ed.D., Rutgers University  
Associate Professor, Educational Psychology and Foundations — 1976 (2004)
- N. Marshall Schools** — B.S., Mary Washington College; M.A., George Peabody College for Teachers  
Associate Professor, Teaching — 1949 (1976)
- Augusta Schurrer** — B.A., Hunter College; M.A., Ph.D., University of Wisconsin-Madison  
Professor, Mathematics — 1950 (1997)
- Lynn C. Schwandt** — B.A., Coe College; M.A., University of Northern Iowa; M.A., Stanford University  
Professor, Teaching: Mathematics — 1964 (1992)
- Archana Daya Shankar** — B.A., Agra University; M.S., Ph.D., Ohio University  
Associate Professor, Communication Studies — 1994 (2004)
- Allan R. Shickman** — B.F.A., Washington University-St. Louis; M.A., University of Iowa  
Associate Professor, Art — 1970 (1999)
- Carolyn L. Shields** — B.A., Ph.D., University of Texas-Austin  
Associate Professor, English — 1976 (2002)
- Edna Anderson Shores** — B.S., M.A., Teachers College of Columbia University  
Assistant Professor, Home Economics — 1947 (1973)
- Vera Jo Siddens** — B.A., M.A., University of Northern Iowa  
Professor, Art — 1968 (1997)
- Robert J. Simpson** — B.A., Houghton College; M.S., Ph.D., University of Illinois  
Associate Professor, Biology — 1965 (1992)
- James C. Skaine** — B.A., Sioux Falls College; M.A., University of South Dakota  
Assistant Professor, Communication Studies — 1965 (1998)
- Joseph J. Smaldino** — B.S., Union College, New York; M.A., University of Connecticut; Ph.D., University of Florida  
Professor, Audiology — 1984 (2003)
- David T. Smalley** — B.M., M.M., University of Michigan  
Associate Professor, School of Music — 1964 (2002)
- Audrey L. Smith** — A.B., Kentucky Wesleyan College; M.A., Northwestern University; M.A.Ed., Ed.D., Ball State University  
Assistant Professor, Educational Leadership, Counseling, and Postsecondary Education — 1973 (1998)
- Joanne K. Spaide** — B.S., University of Illinois; M.S., Ph.D., University of Iowa  
Associate Professor, Design, Family and Consumer Sciences — 1974 (1998)
- Richard G. Stahlhut** — B.A. Northern Illinois University; M.A., Western Michigan University; Ph.D., University of Iowa  
Associate Professor, Teaching and Coordinator of Student Teaching — 1969 (2004)
- Susan B. Stainback** — B.S., Radford College, Virginia; M.Ed., Ed.D., University of Virginia  
Professor, Special Education — 1974 (1998)
- Jerry D. Stockdale** — B.S., M.S., Ph.D., Iowa State University  
Professor, Sociology — 1973 (2006)
- Myrtle M. Stone** — B.A., Washington State University; M.B.A., University of Washington; Ed.D., New York University  
Professor, Teaching — 1928 (1966)
- Marilyn D. Story** — B.A., Ohio Wesleyan University; M.A., University of Michigan; Ph.D., Michigan State University  
Professor, Design, Textiles, Gerontology, & Family Studies — 1968 (2006)
- Norman L. Story** — B.A., David Lipscomb College; M.A., Western Michigan University; Ph.D., California School of Professional Psychology  
Director of the Counseling Center  
Counselor/Psychologist — 1968 (1992)
- Charles T. Strein** — B.A., University of Northern Iowa; M.A.T., Purdue University; M.A., Ph.D., University of Illinois  
Associate Professor, Economics — 1970 (2000)
- Elizabeth J. Strub** — B.A., M.A., University of Northern Iowa  
Assistant Professor, Teaching — 1972 (1993)
- Richard F. Strub** — B.A., University of Northern Iowa; M.A., Colorado State College; Ed.D., University of South Dakota  
Associate Professor, Educational Administration and Counseling — 1964 (1992)  
Coordinator of Minority Recruitment — (1989-1992)
- Godfrey (Garf) Stych** — B.S.P.E., M.A., University of Iowa  
Assistant Professor, Physical Education — 1966 (1991)



- Philip W. Suckling** — B.Sc., M.Sc., McMaster University; Ph.D., University of British Columbia  
Professor, Geography  
Head of the Department of Geography — 1991 (2005)
- Betty M. Swanson** — B.S., University of Minnesota; M.S., University of Southern California  
Assistant Professor, Physical Education — 1949 (2004)
- Alice L. Swensen** — B.A., University of Iowa; M.A., Ph.D., Oklahoma State University  
Associate Professor, English — 1978 (1998)
- Thomas J. Switzer** — B.A., University of Northern Iowa; Ph.D., University of Michigan  
Dean of the College of Education  
Professor, Education — 1987 (2003)
- Robert D. Talbott** — A.B., A.M., Ph.D., University of Illinois, Urbana-Champaign  
Professor, History — 1967 (1996)
- John E. Tarr** — B.S.C., University of Iowa; M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, Teaching — 1961 (1998)
- Nick E. Teig** — B.A., M.A., University of Northern Iowa; Ed.D., University of Nebraska-Lincoln  
Associate Professor, Teaching and Coordinator of Student Teaching — 1967 (1999)
- E. Russell TePaske** — B.A., Westmar College; M.A., University of Northern Iowa; Ph.D., Oklahoma State University  
Professor, Biology — 1963 (1989)
- Shivesh C. Thakur** — B.A., M.A., Patna University, India; Ph.D., University of Durham, England; Diploma, University of Oxford, England  
Professor, Philosophy — 1984 (1999)
- Leland A. Thompson** — B.A., M.A., University of Northern Iowa; Ed.D., University of Denver  
Director of Campus Planning — 1968 (1992)
- Marion R. Thompson** — B.S., M.S., Southern Illinois University; Ed.D., Illinois State University  
Professor, Special Education — 1978 (1999)
- Thomas H. Thompson** — B.A., M.A., Ph.D., University of Iowa  
Professor, Philosophy — 1952 (1994)
- William R. Thrall** — B.S., Wisconsin State University-LaCrosse; M.S., University of Colorado; Ph.D., University of Iowa  
Professor, Health, Physical Education and Leisure Services: Physical Education  
Director of the School of Health, Physical Education and Leisure Services — 1960 (1991)
- Thomas J. Tritle** — B.M., Baldwin Wallace College; Teaching Certificate, South Dakota State University; M.M., New England Conservatory; D.M.A., University of Iowa  
Associate Professor, School of Music — 1980 (2006)
- Jean Ann Trout** — B.S.Ed., Wittenberg University; M.A., Ball State University; Ed.D., Indiana University  
Associate Professor, Educational Psychology and Foundations — 1970 (1991)
- Roy D. Unruh** — B.A., Bethel College; M.A., University of Minnesota; Ed.D., University of Northern Colorado  
Professor, Physics and Science Education — 1967 (2001)
- Howard VanderBeek** — B.A., University of Iowa; M.A., Ed.D., Columbia University  
Professor, Teaching — 1948 (1981)
- Marjorie F. Vargas** — B.S., M.S., University of Wisconsin  
Assistant Professor, Teaching — 1964 (1998)
- Douglas L. Vernier** — B.A., M.A., University of Michigan  
Director of Broadcasting Services  
Assistant Professor, Radio/Television — 1972 (2003)
- Ann S. Vernon** — B.A., M.A., Ph.D., University of Iowa  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1973 (2007)
- Nile D. Vernon** — B.A., Central College; M.A., University of Nebraska; Ph.D., University of Iowa  
Associate Professor, Modern Languages — 1966 (2005)
- Edward V. Voldseth** — B.A., University of Montana; M.A., Teachers College, Columbia University; Ph.D., University of Iowa  
Vice President for University Relations and Development — 1964 (1988)
- William L. Waack** — B.A., University of Northern Iowa; M.A., Ph.D., University of Iowa  
Professor, Curriculum and Instruction  
Director of Teacher Education — 1977 (1998)
- Edward F. Wagner** — B.S., University of Wisconsin; B.S., Wisconsin State College, Eau Claire; M.A.L.S., University of Wisconsin  
Associate Professor and Interlibrary Loan Librarian — 1958 (1995)
- Julia E. Wallace** — B.S., State University of New York-Oswego; M.A., State University of New York-Binghamton; M.S., University of Iowa; Ph.D., State University of New York-Binghamton  
Professor, Psychology — 1978 (2007)  
Dean of the College of Social and Behavioral Sciences — 2000-2007
- Robert J. Waller, Jr.** — B.A., M.A., University of Northern Iowa; D.B.A., Indiana University  
Professor, Management — 1968 (1998)
- Stanley J. Walljasper** — B.A., M.S., Ph.D., University of Iowa  
Associate Professor, Computer Science — 1975 (1996)
- Andre G. Walther** — B.A., University of Northern Iowa; M.A., Michigan State University  
Assistant Professor, Modern Languages — 1964 (1996)
- Donald R. Walton** — B.A., St. Ambrose College; M.A., University of Northern Iowa  
Recruitment and Classification Specialist/Professional & Scientific — 1966 (1993)
- Robert T. Ward** — B.A., Amherst College; M.A., Ph.D., Harvard University  
Associate Professor, Physics and Science Education — 1975 (1999)
- Carl O. Wehner** — B.A., M.A.Ed., University of Northern Iowa  
Assistant Professor, Computer Science — 1961 (1992)
- Wanda P. Wehner** — B.A., M.A., University of Northern Iowa  
Assistant Professor, Chemistry — 1966 (1992)
- Margaret Weiser** — B.A., Douglass College, Rutgers; M.S., Florida State University; Ed.D., University of Illinois  
Professor, Curriculum and Instruction — 1991 (1993)
- Joel W. Wells** — B.S., Ohio University; M.A., Western Carolina University; Ph.D., University of Connecticut  
Professor, Design, Family and Consumer Sciences — 1981 (2001)
- Donald B. Wendt** — B.M., Northwestern University; M.A., University of Northern Iowa  
Associate Professor, School of Music — 1958 (1989)
- David A. Whitsett** — B.A., Pennsylvania State University; M.S., Ph.D., Case Western Reserve University  
Professor, Psychology — 1974 (2001)
- Paul D. Whitson** — B.S., M.S., Baylor University; Ph.D., University of Oklahoma  
Professor, Biology — 1972 (2005)
- Melba R. Widmer** — B.A., M.A., University of Iowa; Ph.D., University of Minnesota  
Assistant Professor, Design, Textiles, Gerontology, & Family Studies: Interior Design — 1979 (2008)
- Donald E. Wiederanders** — B.S., Wartburg College; M.A., University of

## Emeritus

Minnesota

Professor, Teaching — 1958 (1991)

**Jack L. Wielenga** — B.A., M.A., Ed.S., University of Northern Iowa

Student Records and Retention Director — 1959 (1998)

**Russell A. Wiley** — B.A., M.A., University of Northern Iowa

Assistant Professor, Chemistry — 1967 (2007)

**Sandra C. Williamson** — B.S., M.S., Eastern New Mexico University;

Ed.D., University of Northern Colorado

Associate Director of Athletics/Senior Woman Administrator — 1978

(2004)

**Nixon A. Wilson** — B.A., Earlham College; M. Wildlife Management,

University of Michigan; Ph.D., Purdue University

Professor, Biology — 1969 (1997)

**Robley C. Wilson, Jr.** — B.A., Bowdoin College; M.F.A., University of

Iowa; D.Litt., Bowdoin College

Editor, North American Review — 1963 (2000)

**Dorothy Wineke** — B.S., M.S., University of Wisconsin

Instructor, Teaching — 1949 (1982)

**Francis J. Winter** — B.A., University of Dubuque; M.A., Ph.D.,

University of Iowa

Assistant Professor, Political Science — 1965 (1996)

**Harold B. Wohl** — B.A., M.A., Ph.D., University of Iowa

Professor, History — 1956 (1995)

**Joanne Wolfe** — B.A., M.A., University of Northern Iowa

Assistant Professor, Teaching — 1967 (1995)

**Ching S. Woo** — B.A., Cornell University, New York; M.S., University of

Michigan; Ph.D., University of Kentucky

Professor, Chemistry — 1967 (2000)

**Evelyn S. Wood** — A.B., Marshall University; M.A., University of

Michigan

Associate Professor, English — 1966 (1992)

**Barbara Yager** — B.S., M.A., Ohio State University; Ed.D., University of

Southern California

Professor, Physical Education — 1949 (1985)

**H. Marcus Yoder** — B.A., Bethel College, Kansas; M.A., Ph.D.,

University of Iowa

Associate Professor, Curriculum and Instruction — 1971 (1998)

**George K. Zucker** — B.A., Queens College, New York; M.A., Ph.D.,

University of Iowa

Professor, Modern Languages — 1968 (2001)

# 2008 Faculty

---

**Tilahun Abebe** — B.Sc., Asmara University; M.S., University of Wales; Ph.D., Oklahoma State

Assistant Professor, Biology — 2004

**\*Fred J. Abraham** — B.S., University of Wisconsin-LaCrosse; M.S., University of Wisconsin-Madison; M.A., Ph.D., University of Oregon

Professor, Economics — 1973 (1988)

Head of the Department of Economics — 1992

**Ronald J. Abraham** — B.B.A., M.B.A., University of Wisconsin-Madison; CPA

Assistant Professor, Accounting — 1974

**\*Charles M. Adelman** — A.B., Brooklyn College; Ph.D., University of Chicago; Ph.D., University of Gothenburg, Sweden

Professor, Art — 1983 (2005)

**\*Pita O. Agbese** — B.Sc., Ahmadu Bello University; M.A., Northwestern University; M.B.A., Keller Graduate School of Management-Chicago; Ph.D., Northwestern University

Professor, Political Science — 1989 (1998)

**\*Iradge Ahrabi-Fard** — B.A., M.A., University of Northern Iowa; Ph.D., University of Minnesota

Professor, School of Health, Physical Education, and Leisure Services — 1972 (1984)

**\*Imam Alam** — B.S., M.S., University of Dhaka, Bangladesh; M.A., University of Houston; Ph.D., University of Illinois, Urbana-Champaign

Associate Professor, Economics — 1996 (2003)

**\*Barbara F. H. Allen** — B.A., Wartburg College; M.A., University of Iowa; M.A. University of Northern Iowa

Associate Professor and Reference Librarian and Bibliographer — 1989 (1999)

**\*Benjamin J. Allen** — B.S., Indiana University; M.A., Ph.D., University of Illinois

President of the University — 2006

Professor, Management

**\*Radhi H. Al-Mabuk** — B.A., St. Mary's College-Winona; M.S., Winona State University; Ph.D., University of Wisconsin-Madison

Associate Professor, Educational Psychology and Foundations — 1990 (1996)

Interim Head of the Department of Educational Psychology and Foundations — 2007

**\*Sandra K. Alper** — B.S., M.A., Ph.D., University of Iowa

Professor, Special Education — 1994

**\*Shahina Amin** — B.S., M.S., University of Dhaka, Bangladesh; M.A., University of Houston; Ph.D., University of Illinois, Urbana-Champaign

Associate Professor, Economics — 2000 (2006)

**\*Alan W. Asher** — B.M., West Texas State University; M.M., The Cleveland Institute of Music; D.M. Florida State University; M.L.S., Texas Woman's University

Assistant Professor and Art and Music Librarian and Bibliographer — 2002

**Kody Asmus** — B.A., University of Iowa

Instructor, Teaching — 2005

**\*Kenneth R. Atkinson** — B.A., Oakland University; M.Div., University of Chicago; M.A., Ph.D., Temple University

Assistant Professor, World Religions — 1999

**\*Phyllis L. Baker** — B.A., San Diego State University; M.A., Ph.D., University of California-San Diego

Professor, Sociology — 1990 (2005)

Director of Women's and Gender Studies Program — 2006

**Megan E. Balong** — B.A., M.A., University of Northern Iowa

Instructor of Teaching, Price Laboratory School — 1999

**\*Ronnie G. Bankston** — B.A., Baylor University; M.S., Oklahoma State University; Ph.D., University of Iowa

Associate Professor, Communication Studies — 1991 (1995)

**\*Howard L. Barnes** — B.A., Macalester College; M.S., Kansas State University; Ph.D., University of Minnesota

Associate Professor, Design, Textiles, Gerontology, & Family Studies  
Head of the Department of Design, Textiles, Gerontology, & Family Studies — 1997

**Allison Barnes** — B.A., University of Northern Iowa

Instructor, Teaching — 2007

**\*Bradley T. Barrett** — B.S., M.S., Southwest Missouri State; D.M.A., University of Arizona

Assistant Professor, School of Music — 2002

**\*Korey Barrett** — B.A., M.A., University of Northern Iowa; D.M.A., Eastman School of Music

Assistant Professor, School of Music — 2007

**\*Thomas M. Barry** — B.M.E., M.M., University of Colorado

Assistant Professor, Oboe and Saxophone — 1973 (1976)

**\*Duane E. Bartak** — B.A., Emporia State University; Ph.D., Kansas State University

Professor, Chemistry and Biochemistry — 1992

**\*Jan Bartlett** — B.A., San Diego State University; B.S., Ph.D., University of Arkansas

Associate Professor, Educational Leadership, Counseling, and Postsecondary Education — 2007

**\*Clemens Bartollas** — B.A., Davis and Elkins College; B.D., Princeton Theological Seminary; S.T.M., San Francisco Theological Seminary; Ph.D., Ohio State University

Professor, Criminology — 1981 (1985)

**\*John D. Baskerville** — B.A., Tarkio College; M.A., Ph.D., University of Iowa

Associate Professor, History — 1993 (2004)

**\*Ann Marie (Maria) Basom** — B.A., University of Minnesota; M.A., Ph.D., University of Wisconsin-Madison

Professor, Modern Languages — 1994 (2004)

**\*Kenneth E. Basom** — B.A., Earlham College; M.A., Ph.D., University of Wisconsin-Madison

Associate Professor, Political Science — 1991 (1996)

**\*Brenda L. Bass** — B.A., California State University-Bakersfield; M.S., Ph.D., University of Arizona

Associate Professor, Design, Textiles, Gerontology, & Family Studies — 1996 (2003)

Associate Dean of the College of Social and Behavioral Sciences — 2008

**\*Kenneth E. Baughman** — B.A., Lawrence University; M.A., Ph.D., University of Chicago

Assistant Professor, English — 1972

**\*Christine C. Bauman** — B.S., Pennsylvania State University; Ph.D., University of Wisconsin-Madison; CPA

Associate Professor, Tax and Accounting — 2005

**\*Mark P. Bauman** — B.A., Duke University; M.B.A., Mississippi State University; M.S., University of Virginia; Ph.D., University of Wisconsin-Madison; CPA

Associate Professor, Accounting — 2005

**\*Melissa L. Beall** — B.S., M.A., Ph.D., University of Nebraska

Professor, Communication Studies — 1990 (1994)

**Aricia M. Beckman** — B.A., M.A., University of Northern Iowa

Instructor of Teaching, Price Laboratory School — 1983 (2002)

**\*Penny L. Beed** — B.S., Iowa State University; M.A., Ph.D., University of Iowa

Associate Professor, Curriculum and Instruction — 1992 (1998)

## 2008 Faculty

**Allison Beharka** — B.S., California Polytechnic State University; M.S., Ph.D., Kansas State University

Instructor, Teaching — 2005

**\*Roy R. Behrens** — B.A., University of Northern Iowa; M.A., Rhode Island School of Design

Professor, Art — 1990

**\*Feredon (Fred) Behroozi** — B.S., University of Washington-Seattle; Ph.D., University of Pittsburgh

Professor, Physics — 1992

**\*Peter BZ Berendzen** — B.A., B.S., M.A., University of Kansas; Ph.D., University of Minnesota

Assistant Professor, Biology — 2005

**\*Thomas R. Berg** — B.A., M.A., Ph.D., Ohio State University

Associate Professor, Educational Psychology and Foundations — 1972 (1980)

**\*Virginia A. Berg** — B.S., Tufts University; M.S., Ph.D., University of Washington

Professor, Biology — 1984 (1992)

**\*Gretta L. Berghammer** — B.A., University of Wisconsin-Green Bay; M.F.A., University of Texas-Austin

Professor, Theatre — 1984 (1997)

**\*Barton L. Bergquist** — B.S., North Park College; M.S., Northeastern Illinois University; Ph.D., University of Kansas

Professor, Biology — 1978 (1992)

Acting Head, Department of Industrial Technology — 2008

**\*Fred H. Besthorn** — B.S., Sterling College; M.Div., Grace Theological Seminary; M.S.W., Ph.D., University of Kansas

Associate Professor, Social Work — 2002 (2003)

**Maribelle H. Betterton** — B.A., M.A., University of Northern Iowa

Assistant Professor, Curriculum and Instruction — 1973 (1976)

**\*Gowri Betrabet Gulwadi** — B.A., University of Visweswaraya, Bangalore, India; Ph.D., University of Wisconsin-Milwaukee

Assistant Professor, Design, Textiles, Gerontology, & Family Studies — 2003

**Thomas Blaine** — B.A., Western Illinois University; M.A., University of Northern Iowa

Instructor of Teaching and Coordinator of Student Teaching — 1999

**Sara Blanco** — B.A., University of Northern Iowa

Instructor, Teaching — 2003

**Katherine M. Blecha** — B.S., M.S., University of Nebraska-Lincoln

Instructor of Teaching and Coordinator of Student Teaching — 1988

**\*Kenneth (Ken) M. Bleile** — B.A., San Francisco State University; M.S., University of Oregon; Ph.D., University of Iowa

Professor, Speech-Language Pathology — 1996 (2000)

**Carl Blue** — B.S., M.A., Appalachian State University; Ed.D., North Carolina State University

Assistant Professor, Industrial Technology — 2006

**\*Edgar Boedeker** — B.A., Wesleyan University; M.A., Ph.D., Northwestern University

Associate Professor, Philosophy — 2000 (2007)

**\*Mary E. Boes** — B.A., Briar Cliff College; M.S.W., M.P.H., Tulane University; D.S.W., University of Pennsylvania

Associate Professor, Social Work — 1994 (1999)

Director of Undergraduate Social Work Program — 2007

**\*Todd A. Bohnenkamp** — B.A., University of Iowa; M.A., University of Northern Iowa; Ph.D., Indiana University-Bloomington

Assistant Professor, Speech-Language Pathology — 2005 (2006)

**\*Robert M. Boody** — B.S., Ph.D., Brigham Young University

Associate Professor, Educational Psychology and Foundations — 1992 (1998)

**\*Sean D. Botkin** — B.M., Stanford University; M.M., The Juilliard School

Assistant Professor, School of Music — 2004

**\*Mary K. Bozik** — B.S., University of Wisconsin-OshKosh; M.A., Bradley University; Ph.D., University of Illinois, Urbana-Champaign

Professor, Communication Studies — 1982 (1992)

**Dorothy M. Brecheisen** — B.S., Kansas State; M.S., Ph.D., Purdue University

Instructor, Biology — 1995

**Dianna L. Briggs** — B.A., M.A., University of Northern Iowa

Instructor, Teaching — 1978 (1989)

Director, Office of Student Field Experiences (2005)

**Donald B. Briggs** — B.A., University of Iowa; M.A., University of Northern Iowa

Instructor, Leisure, Youth and Human Services — 1972 (1997)

**Steven Briggs** — B.A., University of North Dakota; M.A., Ph.D., University of Nebraska

Assistant Professor, Sociology, Anthropology, and Criminology — 2008

**\*Harry W. Brod** — B.A., New York University; M.A., Ph.D., University of California—San Diego

Professor, Philosophy and Humanities — 1999 (2002)

**Shelly Bromwich** — B.A., M.A.E., University of Northern Iowa

Instructor, Teaching — 2000

**\*Edward J. Brown** — B.S., University of Minnesota-St. Paul; M.S., Ph.D., University of Wisconsin-Madison

Professor, Biology — 1992

**\*Kenneth H. Brown** — B.S., St. Louis University; M.S., Ph.D., University of Illinois, Urbana-Champaign

Associate Professor, Economics — 1994 (2001)

**Kevin Brown** — B.M., M.M., University of Northern Iowa

Instructor, Teaching — 2007

**\*Seth A. Brown** — B.A., University of Maryland-College Park; M.A., West Virginia University; Ph.D., University of New Mexico

Associate Professor, Psychology — 2002 (2007)

**Jody Brucker** — B.S., Fort Hays State University; M.S., The Ohio University; Ph.D., Brigham Young University

Assistant Professor, School of Health, Physical Education, and Leisure Services — 2008

**\*Gregory L. Bruess** — B.A., Augsburg College; M.A., Ph.D., University of Minnesota

Associate Professor, History — 1989 (1997)

**\*Reinhold K. Bubser** — Abitur, Ziehen-Realgymnasium (Frankfurt); B.A., Western Michigan University; M.A., Ph.D., Michigan State University

Professor, Modern Languages — 1982 (1984)

Interim Dean of the College of Humanities and Fine Arts — 2005

**\*Christopher Buckholz** — B.A., Wake Forest University; M.M., Yale University; D.M.A., University of Michigan

Assistant Professor, School of Music — 2006

**\*John A. Bumpus** — B.S., M.S., State University of New York-Oswego; M.A., State University of New York-Binghamton; Ph.D., St. Louis University, School of Medicine

Professor, Chemistry and Biochemistry — 1995 (1999)

**\*Matthew P. Bunker** — B.S., Brigham Young University; M.A., Ph.D., University of Nebraska-Lincoln

Assistant Professor, Marketing — 2003

**\*Angela N. Burda** — B.A., B.A.S., M.A., University of Minnesota-Duluth; Ph.D., Wichita State University

Associate Professor, Communication Sciences and Disorders — 2000 (2006)

- \*Rebecca L. Burkhardt** — B.M., Southwestern University; M.M.E., North Texas State University; Ph.D., University of Texas-Austin  
Professor, School of Music — 1994 (2003)  
Director of the Orchestra — 1988  
Associate Director of Music, Graduate Studies — (2005)
- \*Winston Burt** — B.A., Inter-American University, Puerto Rico; M.S., Ed.S., Ph.C., Ph.D., University of Michigan  
Adjunct Professor, Social Work — 1988
- \*John O. Burtis** — B.A., M.A., Kansas State University; Ph.D., University of Minnesota  
Professor, Communication Studies — 2000
- \*Adam B. Butler** — B.S., University of Iowa; M.A., University of Nebraska-Omaha; Ph.D., University of Nebraska-Lincoln  
Professor, Psychology — 1999 (2007)
- \*Jeffrey J. Byrd** — B.F.A., University of Alabama; M.F.A., University of Florida  
Professor, Art — 1989 (2000)  
Head of Department of Art — (2007)
- \*Mingshui Cai** — B.A., Fujian Teaching College; M.A., Hangzhou University; M.A., University of Akron; Ph.D., Ohio State University  
Professor, Curriculum and Instruction — 1992 (2003)
- \*William P. Callahan II** — B.A., University of Southern Florida; M.A.T., Rollins College; Ed.D., University of Florida  
Professor, Special Education — 1979 (1989)  
Dean of College of Education — 2007
- \*Russell B. Campbell** — Sc.B., Sc.M., Brown University; M.S., Ph.D., Stanford University  
Associate Professor, Mathematics — 1983 (1988)
- \*Christine L. Canning** — B.S., Bowling Green State University; M.A., Michigan State University; Ph.D., University of Michigan  
Associate Professor, Teaching — 1988 (1994)
- \*Phyllis Scott Carlin** — B.S.E., Northeast Missouri State University; M.S., Ph.D., Southern Illinois University  
Professor, Communication Studies — 1976 (1988)
- \*Juan Carlos Castillo** — B.A., Licenciado in Hispanic Philology  
Universidad de Deusto, Bilbao, Spain; M.A., University of Iowa; Ph.D., University of Maryland  
Assistant Professor, Modern Languages — 2001
- \*Jerry V. Caswell** — B.A., Brandeis University; M.A., M.A., Ph.D., University of Wisconsin-Madison  
Associate Professor and Head of the Library Information Technologies — 1999 (2005)
- \*C. Clifton Chancey** — B.S., Miami University; M.A., Ph.D., Johns Hopkins University  
Professor, Physics  
Head of the Department of Physics — 2001
- Ruth Chananie-Hill** — B.S., M.A., Middle Tennessee State University; Ph.D., Southern Illinois University-Carbondale  
Assistant Professor, Sociology, Anthropology, and Criminology — 2008
- \*April D. Chatham-Carpenter** — B.A., University of Central Arkansas; M.A., Ph.D., University of Oklahoma  
Associate Professor, Communication Studies — 1991 (1997)
- \*Shing-Ling S. (Sarina) Chen** — B.A., Providence College, Taichung; M.A., Ph.D., University of Iowa  
Associate Professor, Communication Studies — 1990 (1998)
- \*Zhoujun (Joyce) Chen** — B.S., Quin Hua University; M.A., Ph.D., University of Iowa  
Associate Professor, Communication Studies — 1994 (2001)
- \*Jonathan N. Chenoweth** — B.M., B.A., Oberlin College; M.M., Virginia Commonwealth University; M.M., D.M.A., State University of New York-Stony Brook  
Associate Professor, Cello — 1991 (1997)
- \*R. Martin Chin** — B.S., Lehigh University; Ph.D., University of Rochester  
Associate Professor, Chemistry and Biochemistry — 1999 (2003)
- \*Mary Christ** — B.B.A., University of Iowa; M.S., University of Wisconsin-Madison; Ph.D., University of Texas-Austin; CPA  
Associate Professor, Accounting — 2007
- \*LeRoy (Rick) Christ** — B.A., J.D., M.B.A., University of Wisconsin-Madison; Ph.D., University of Texas-Austin; CPA  
Associate Professor, Accounting — 2007
- C. David Christensen** — B.A., M.A., University of Northern Iowa  
Associate Professor, Curriculum and Instruction — 1974 (1993)
- \*Dennis E. Clayson** — B.S., Ph.D., Brigham Young University  
Professor, Marketing — 1982 (1997)
- \*Maureen E. Clayton** — B.S., Eckerd College; Ph.D., MIT/Woods Hole Oceanographic Institute  
Associate Professor, Biology — 1998 (2004)
- \*Scharron A. Clayton** — B.S., Central State University; M.Ed., University of Delaware; Ph.D., University of Iowa  
Associate Professor, Ethnic and Cultural Studies — 1991
- \*William W. Clohesy** — B.S., Loyola University-Chicago; M.A., Southern Illinois University-Carbondale; Ph.D., New School for Social Research, New York  
Associate Professor, Philosophy — 1987 (1992)
- \*Kerri Clopton** — B.A., Carroll College; M.S., Ph.D., Texas A&M  
Assistant Professor, Educational Psychology and Foundations — 2003
- \*Carol A. Colburn** — B.A., Western Washington University; M.A., Ph.D., University of Minnesota  
Professor, Theatre/Costume Design — 1981 (1997)
- \*Richard W. Colburn** — B.A., Western Washington University; M.F.A., University of Minnesota  
Professor, Art — 1982 (1997)
- Rachel Cole** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 2005
- \*Thomas G. Connors** — B.A., Washington and Lee University; M.A., Ph.D., University of Illinois, Urbana-Champaign  
Associate Professor, History — 1996 (2003)
- \*Jennifer Cooley** — B.A., Lawrence University; M.A., Syracuse University; Ph.D., University of Iowa  
Associate Professor, Modern Languages — 1999 (2004)
- \*Shoshanna R. Coon** — B.S., Indiana University; Ph.D., University of Texas-Austin  
Associate Professor, Chemistry and Biochemistry — 1995 (2001)
- \*Timothy M. Cooney** — B.S., Lock Haven University; M.S., Elmira College; Ed.D., University of Northern Colorado  
Professor, Earth Science and Science Education — 1977 (1987)
- \*Carol A. Cooper** — B.S., Oregon State University; M.S., Smith College; Ed.D., University of North Carolina-Greensboro  
Associate Professor, Physical Education — 1974 (1981)
- \*Jeffrey S. Copeland** — B.S., University of Missouri-Columbia; M.A., Arkansas State University; Ph.D., University of Missouri-Columbia  
Professor, English — 1981 (1995)  
Head of the Department of English Language and Literature — 1997
- \*Steven B. Corbin** — B.A., University of Northern Iowa; M.Ed., Colorado State University; Ed.D., Virginia Polytechnic Institute and State University  
Associate Professor, Marketing — 1975 (1980)  
Interim Head Department of Marketing — 2007
- Jeffrey W. Cornett** — B.S.Ed., Bowling Green State University; M.S.Ed., University of Toledo; Ph.D., Ohio State University  
Professor, Curriculum and Instruction — 2003

## 2008 Faculty

- Vuokko E. Cornett** — B.S., Bowling Green State University; M.S., University of Toledo  
Instructor of Teaching and Coordinator of Student Teaching — 2003
- Karen Couch Breitbach** — B.A., M.A., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1985 (2003)
- \*Cynthia M. Coulter** — B.S., M.L.S., Kent State University; Ph.D., University of Oklahoma  
Associate Professor and Head of Technical Services Department — 1989 (1992)
- \*Lyn L. Countryman** — B.A., Iowa State University; M.A., Ph.D., University of Iowa  
Associate Professor of Teaching, Price Laboratory School — 1990 (1997)
- \*Arthur T. Cox** — B.B.A., M.A., Ph.D., University of Iowa  
Associate Professor, Finance — 1989 (1995)  
Director of the Real Estate Education Program  
Interim Head of Department of Finance (2006)
- \*B. Keith Crew** — B.A., Auburn University-Montgomery; M.A., Ph.D., University of Kentucky  
Associate Professor, Criminology — 1985 (1992)
- \*Dennis C. Cryer** — B.A., M.A., University of Northern Iowa; Ph.D., University of Utah  
Associate Professor, School of Health, Physical Education, and Leisure Services — 1976 (1989)
- James D. Cryer** — B.A., M.A., University of Iowa; Advanced Certificate, University of Northern Iowa  
Instructor of Teaching, Price Laboratory School (1998)  
Principal PK—8, Price Laboratory School — 2004
- \*Ivonne Cuadra** — B.A., State University of New York; M.A., Ph.D., University of Iowa  
Associate Professor, Modern Languages — 2001 (2007)
- \*Leonard M. Curtis** — B.A., M.F.A., University of Iowa  
Associate Professor, Theatre — 1995 (2001)
- \*Barbara Cutter** — B.A., Columbia University; Ph.D., Rutgers University  
Associate Professor, History — 2000 (2006)
- \*Dale Cyphert** — B.A., San Diego State; M.B.A., University of California-Davis; Ph.D., Penn State University  
Associate Professor, Management — 1997 (2003)  
Acting Head of the Department of Management — 2006
- \*Alan C. Czarnetzki** — B.S., M.S., Ph.D., University of Wisconsin-Madison  
Professor, Meteorology — 1992 (2004)
- \*Dennis E. Dahms** — B.J., A.M., University of Missouri; M.A., University of Colorado; Ph.D., University of Kansas  
Professor, Geography — 1990 (2004)
- Nadene A. Davidson** — B.A., M.A., Ed.D., University of Northern Iowa  
Assistant Professor, Teaching — 1981 (2007)  
Interim Head of Department of Teaching — 2007
- \*James S. Davis** — B.S., Southwest Missouri State College; M.Ed., Ph.D., University of Missouri  
Assistant Professor, English — 2003
- \*Thomas M. Davis** — B.A., Central Washington University; M.S., H.S.D., Indiana University  
Professor, School of Health, Physical Education, and Leisure Services — 1979 (1999)
- \*Darcie A. Davis-Gage** — B.A., Loras College; M.S., Ed.S., Pittsburg State University; Ph.D., University of Iowa  
Assistant Professor, Educational Leadership, Counseling, and Postsecondary Education — 2005
- \*Kenneth J. De Nault** — B.S., Stanford University; M.S., University of Wyoming; Ph.D., Stanford University  
Associate Professor, Geology — 1973 (1980)
- \*Betty A. DeBerg** — B.A., Concordia College; M.Div., Vanderbilt Divinity School; M.A., Ph.D., Vanderbilt University  
Professor, World Religions — 1997
- \*Robert H. Decker** — B.S., Chicago State University; M.S., Southern Illinois University; Ed.S., Southeast Missouri State University; Ed.D., Illinois State University  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1984 (1998)
- David Deeds** — B.A., University of Northern Iowa; M.B.A., University of Kansas; CPA; CMA  
Instructor, Accounting — 2007
- \*Deborah K. Deemer** — B.A., Muskingum College; M.S., Pennsylvania State University; Ph.D., University of Minnesota  
Associate Professor, Educational Psychology and Foundations — 1994 (2000)
- \*Victoria L. DeFrancisco** — B.A., Drake University; M.A., Ohio University; Ph.D., University of Illinois  
Professor, Communication Studies — 1988 (2001)
- \*Francis D. Degnin** — B.A., Seattle University; M.A., Villanova University; Ph.D., Vanderbilt University  
Assistant Professor, Philosophy — 2003
- \*Dawn I. Del Carlo** — B.A., Augustana College; M.S., Ph.D., Purdue University  
Assistant Professor, Chemistry and Biochemistry — 2004
- \*James W. Demastes** — B.S., Auburn University; M.S., Ph.D., Louisiana State University  
Associate Professor, Biology — 1998 (2003)
- \*John J. Deisz** — B.S., North Dakota State University; M.S., University of California—Davis; Ph.D., Ohio State University  
Associate Professor, Physics — 1999 (2004)
- \*Diane E. Depken** — B.A., Ed.D., Temple University  
Associate Professor, School of Health, Physical Education, and Leisure Services — 1995 (2003)
- \*M. Catherine DeSoto** — B.A., Southern Illinois University-Carbondale; M.A., Ph.D., University of Missouri-Columbia  
Associate Professor, Psychology — 2001 (2006)
- \*Rheta L. DeVries** — B.A., Baylor University; Ph.D., University of Chicago  
Professor, Curriculum and Instruction  
Director, Regents Center for Early Developmental Education — 1993
- \*Kavita R. Dhanwada** — B.S., University of Illinois; Ph.D., Loyola University—Chicago  
Associate Professor, Biology — 1998 (2004)
- Laura S. Diemer** — B.A., Buena Vista College; M.A., University of Northern Iowa  
Instructor, Psychology — 1994
- \*Rodney B. Dieser** — B.S., M.S., University of Utah; Ph.D., University of Alberta  
Associate Professor, School of Health, Physical Education, and Leisure Services — 2001 (2007)
- \*Anelia Dimitrova** — B.A., M.A., University of Sofia, Bulgaria; Ph.D., University of Missouri-Columbia  
Associate Professor, Journalism — 1997 (2001)
- \*Robert L. Dise** — B.A., University of Virginia; A.M., Ph.D., University of Michigan  
Associate Professor, History — 1992 (1998)
- \*Forrest A. Dolgener** — B.S., M.Ed., Ph.D., University of Texas-Austin  
Professor, Physical Education — 1979 (1991)
- J. Ana Donaldson** — B.S., M.S.Ed., Ed.D., Northern Illinois University  
Assistant Professor, Curriculum and Instruction — 2001

- \*Timothy B. Dooley** — B.S., B.F.A., Florida State University; M.F.A., University of Tennessee  
Associate Professor, Art — 1999 (2005)
- \*Donna H. Douglas** — B.A., M.Ed., University of Central Florida; Ph.D., Florida State University  
Associate Professor, Curriculum and Instruction — 1992 (1999)
- \*William R. Downs** — B.A., University of Minnesota-Minneapolis; M.S.S.W., University of Wisconsin-Milwaukee; Ph.D., University of Wisconsin-Madison  
Professor, Social Work — 1992
- Mary S. Doyle** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 2000
- \*Janet M. Drake** — B.S., St. Cloud University; M.S., Ph.D., University of Minnesota  
Associate Professor, Computer Science — 1993 (1998)
- \*Kevin Droie** — B.M./B.M.E., M.M.E., University of Northern Colorado; Ph.D., Florida State University  
Assistant Professor, School of Music — 2006
- Anne DuChene** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2003
- \*Erica A. Duffy** — B.F.A., University of Michigan; M.F.A., Miami University-Oxford, Ohio  
Assistant Professor, Art — 2005
- \*Cynthia Dickel Dunn** — B.A., Oberlin College; M.A., Ph.D., University of Texas  
Associate Professor, Anthropology — 2000 (2006)
- Lynn K. Dykstra** — B.S., Creighton University; M.A., Ed.S., University of Iowa  
Instructor of Teaching, Price Laboratory School — 1984 (1986)
- \*J. Philip East** — B.S., Southwestern Oklahoma State University; M.S., Ph.D., University of Oregon  
Associate Professor, Computer Science — 1985 (1990)
- \*Katheryn East** — B.S., M.S., Southwest State Oklahoma University; Ed.D., University of Northern Iowa  
Assistant Professor, Educational Psychology and Foundations — 2003
- \*Mark D. Ecker** — B.S., Millersville University of Pennsylvania; M.S., University of Rhode Island; Ph.D., University of Connecticut  
Associate Professor, Mathematics — 1997 (2001)
- \*Jay A. Edelnant** — B.A., MacMurray College; M.A., Ph.D., Northwestern University  
Professor, Performance Studies — 1971 (1989)
- \*Trudy Eden** — B.A., University of Texas-Austin; J.D., Emory University; Ph.D., John Hopkins University  
Associate Professor, History — 2000 (2006)
- \*Christopher R. Edginton** — B.A., San Jose State University; M.S., University of Illinois; Ph.D., University of Iowa  
Professor, School of Health, Physical Education, and Leisure Services  
Director of the School of Health, Physical Education, and Leisure Services — 1991
- \*Rebecca K. Edmiaston** — B.S., M.Ed., Central State University; Ph.D., University of Texas-Austin  
Associate Professor, Curriculum and Instruction — 1994 (2003)
- \*H. Stephan Egger** — B.S., M.S., University of Wisconsin-Stout; Ed.D., Texas A&M University  
Associate Professor, Industrial Technology — 1985 (1991)
- \*Jeffrey Elbert** — B.S., Iowa State University; M.S., Ph.D., Northwestern University; M.B.A., Capella University  
Associate Professor, Chemistry and Biochemistry — 2001 (2007)
- Michael Elioiff** — B.S., M.S., University of Texas; Ph.D., Boston University  
Assistant Professor, Chemistry and Biochemistry — 2007
- \*David K. Else** — B.S., Westmar College; M.A., University of South Dakota; Ph.D., Iowa State University  
Associate Professor, Educational Leadership, Counseling, and Postsecondary Education — 1988 (1990)  
Director, Institute for Educational Leadership
- Paul Elser** — B.A., University of Northern Iowa  
Instructor, Teaching — 2007
- Lynne C. Ensworth** — B.S., Gordon College; M.A., University of Southern Maine  
Instructor, Curriculum and Instruction — 1996
- Nathan Epley** — B.A., Duke University; M.A., University of Virginia  
Assistant Professor, Electronic Media — 2005
- \*Lawrence T. Escalada** — B.S., B.S., M.S., Ph.D., Kansas State University  
Associate Professor, Physics and Science Education — 1997 (2003)
- \*Xavier Escandell** — B.A., M.A., University of Barcelona (Spain); Ph.D., University of Illinois at Urbana-Champaign  
Assistant Professor, Sociology — 2005
- \*Elaine M. Eshbaugh** — B.A., University of Northern Iowa; M.S., Ph.D., Iowa State University  
Assistant Professor, Design, Textiles, Gerontology, & Family Studies — 2006
- \*Susan L. Etscheidt** — B.A., M.A.E., University of Northern Iowa; Ph.D., University of Minnesota  
Professor, Special Education — 1977 (2006)
- \*Todd A. Evans** — B.S., Slippery Rock University; M.A., Indiana State University; Ph.D., The Pennsylvania State University  
Associate Professor, School of Health, Physical Education, and Leisure Services — 2002 (2007)
- \*Bettina G. Fabos** — B.A., Oberline College; M.A., University of Michigan; Ph.D., University of Iowa  
Assistant Professor, Communication Studies — 2001
- \*Mohammed F. Fahmy** — B.Sc., Ain-Shams University, Cairo, Egypt; M.Sc., Rensselaer Polytechnic Institute; Ph.D., Michigan State University  
Professor, Industrial Technology — 1983 (1990)
- \*Michael P. Fanelli** — B.M., University of Illinois at Urbana-Champaign; M.A., University of Missouri-Columbia; Ed.D., University of Illinois at Urbana-Champaign  
Assistant Professor, Educational Psychology and Foundations — 1987 (2001)
- \*Philip M. Fass** — B.F.A., University of Wisconsin-Milwaukee; M.F.A., University of Illinois, Urbana-Champaign  
Professor, Art — 1991 (2004)
- \*Richard A. Featherstone** — B.A., Oregon State University; M.A., Western Seminary; M.S., Ph.D., Purdue University  
Assistant Professor, Criminology — 2002
- \*John T. Fecik** — B.S., California State University, Pennsylvania; M.Ed., Ed.D., University of Maryland  
Professor, Industrial Technology — 1981 (1985)
- \*Louis E. Fenech** — B.A., M.A., Ph.D., University of Toronto  
Associate Professor, History — 1995 (2001)
- \*Mark A. Fienup** — B.A., University of Northern Iowa; M.S., Ph.D., Iowa State University  
Associate Professor, Computer Science — 1985 (1996)
- \*Judith M. Finkelstein** — B.S., University of Illinois; M.A., University of Northern Iowa; Ph.D., University of Minnesota  
Professor, Curriculum and Instruction — 1968 (1989)
- \*Kevin J. Finn** — B.A., University of Northern Iowa; M.S., Ph.D., University of New Mexico  
Associate Professor, School of Health, Physical Education, and Leisure Services — 1999 (2005)

## 2008 Faculty

- \*Linda M. Fitzgerald** — B.A., M.A., Ph.D., University of Chicago  
Associate Professor, Curriculum and Instruction — 1994 (2000)
- \*W. Michael Fleming** — B.A., University of Wisconsin-Madison;  
M.A., University of Connecticut; Ph.D., University of Wisconsin-Madison  
Associate Professor, Design, Textiles, Gerontology, & Family Studies — 1999 (2004)
- \*Angeleita S. Floyd** — B.M., Stetson University; M.M., M.M.E., D.M.,  
Florida State University  
Professor, Flute — 1986 (1997)
- \*Thomas M. Fogarty** — A.B., Catholic University of America; M.A.,  
Georgetown University; A.M., Ph.D., University of Pennsylvania  
Professor, Geography and Public Policy — 1989 (2001)
- Richard A. Followill** — B.S., M.B.A., Ph.D., University of Alabama  
Professor, Finance — 1999
- Fabio Eduardo Fontana** — B.S., Federal University of Parana, Brazil;  
M.S., M.Ed., Ph.D., University of Pittsburgh  
Assistant Professor, Health, Physical Education, and Leisure Services — 2008
- \*Stephen J. Fortgang** — B.A., University of Chicago; M.A., Ph.D.,  
Syracuse University  
Associate Professor, Educational Psychology & Foundations — 1975 (1981)
- \*Richard (Rick) Neil Francis** — B.B.A., M.B.A., Ph.D., University of  
Oklahoma  
Assistant Professor, Accounting — 2006
- \*Suzanne R. Freedman** — B.A., University of Delaware; M.A., Ph.D.,  
University of Wisconsin-Madison  
Associate Professor, Educational Psychology and Foundations — 1994 (2000)
- \*John Fritch** — B.A., University of Nebraska-Lincoln; M.A., Ph.D.,  
University of Kansas  
Associate Professor, Communication Studies  
Head of the Department of Communication Studies — 2002
- \*Carissa M. Froyum** — B.A., Concordia College; M.S., Ph.D., North  
Carolina State University  
Assistant Professor, Sociology — 2007
- \*Jeffrey L. Funderburk** — B.M., University of Southern Mississippi;  
M.M., D.M.A., University of Illinois  
Professor, Tuba/Euphonium — 1987 (1997)
- \*Sherry K. Gable** — B.A., University of Northern Iowa; M.A., Ph.D.,  
University of Iowa  
Assistant Professor, Educational Psychology and Foundations — 1974 (1980)
- \*Anthony J. Gabriele** — B.A., Clark University, Massachusetts; M.A.,  
Ph.D., University of Pittsburgh  
Associate Professor, Educational Psychology and Foundations — 1997 (2003)
- Donald Gaff** — B.S., Purdue University; M.S., University of Wisconsin-  
Whitewater; Ph.D., Michigan State University  
Assistant Professor, Sociology, Anthropology, and Criminology — 2008
- Barbara A. Gager** — B.A., M.A., University of Northern Iowa  
Instructor, Curriculum and Instruction  
Academic Advisor, College of Education — 2003 (2007)
- \*Stephen J. Gaies** — B.A., Hamilton College; M.A., Ph.D., Indiana  
University  
Professor, English — 1978 (1986)
- Joseph J. Gale** — B.S., M.S., Iowa State University  
Instructor, Earth Science — 2001
- \*Deborah G. Gallagher** — B.A., Virginia Polytechnic Institute; M.E.D.,  
Lynchburg College; Ph.D., University of Virginia  
Professor, Special Education — 1991 (2002)
- \*S. Daniel Galyen** — B.A., Virginia Tech; M.M., Syracuse University;  
Ph.D., University of Florida  
Assistant Professor, School of Music — 2007
- \*Jennifer L. Garrett** — B.A., M.A., Truman State University; Ph.D.,  
University of Cincinnati  
Assistant Professor, Communication Sciences and Disorders — 2007
- \*Michael M. Gasser** — B.A., University of South Florida; M.A., Ph.D.,  
University of Minnesota  
Professor, Psychology — 1994 (2006)
- \*Julianne Gassman** — B.A., M.A., University of Northern Iowa; Ph.D.,  
University of Iowa  
Associate Director, *Camp Adventure™ Youth Services* — 1998 (2005)  
Associate Professor, School of Health, Physical Education, and Leisure  
Services — 2007
- \*Patricia L. Geadelmann** — B.A., University of Northern Iowa; M.A.,  
University of Iowa; M. Div., United Theological Seminary of the  
Twin Cities; Ed.D., University of North Carolina—Greensboro  
Professor, Physical Education — 1972 (1984)  
Special Assistant to the President for Board and Governmental Relations  
— 1996
- Rosemary Geiken** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2006
- Nicole Geopfert** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 2004
- \*Jean M. Gerrath** — B.Sc., University of British Columbia; Ph.D.,  
University of Guelph  
Professor, Biology — 1994 (2004)
- Deborah M. Giarusso** — B.S., University of Northern Iowa; M.B.A.,  
University of Iowa  
Instructor, Finance — 1998 (2005)
- \*Scott R. Giese** — A.A., Erie Community College, Buffalo, New York;  
B.S., M.S., Ph.D., University of Alabama-Tuscaloosa  
Assistant Professor, Industrial Technology — 2003
- \*Andrew R. Gilpin** — B.S., M.A., Ph.D., Michigan State University  
Professor, Psychology — 1974 (1986)
- \*Timothy W. Gilson** — B.A., University of Northern Iowa; M.S.,  
Northwest Missouri State University; Ed.D., University of Northern  
Iowa  
Assistant Professor, Educational Leadership, Counseling, and  
Postsecondary Education — 2007
- \*Samuel Lyndon Gladden** — B.A., University of Texas; M.A., Ph.D.,  
Texas A&M University  
Associate Professor, English — 2000 (2004)
- \*Richard P. Glockner** — B.A., New York University; M.F.A., Temple  
University  
Associate Professor, Theatre — 1991
- \*Cynthia A. Goatley** — B.A., M.A., University of Arkansas; Ph.D.,  
Bowling Green State University  
Professor, Theatre — 1991 (2005)
- \*Joanne A. Goldman** — B.A., M.A., Ph.D., State University of New  
York-Stony Brook  
Associate Professor, History — 1990 (1998)
- \*Nalin Goonesekere** — B.S., University of Colombo, Sri Lanka; M.S.,  
Ph.D., Princeton University  
Assistant Professor, Chemistry and Biochemistry — 2005
- \*Ronald J. (Joe) Gorton** — B.S., University of Houston-Clear Lake City;  
M.S.W., University of Houston; Ph.D., Texas A&M University  
Associate Professor, Criminology — 1998 (2003)
- \*Vince F. Gotera** — B.A., Stanford University; M.A., San Francisco State  
University; M.F.A., Ph.D., Indiana University  
Professor, English Language and Literature — 1995 (2005)  
Editor, *North American Review* — 2000



- Gretchen B. Gould** — B.A., University of the Pacific; M.S., University of Illinois-Urbana-Champaign  
Instructor and Reference Librarian and Bibliographer — 2006
- \*Randy E. Grabowski** — B.M.E., Indiana University; M.M., University of Nevada-Reno; D.M., Indiana University  
Professor, School of Music — 1986 (1996)
- \*David M. Grant** — B.A., Winona State University; M.A., Northern Arizona University; Ph.D., University of Wisconsin-Madison  
Assistant Professor, English Language and Literature — 2007
- \*Paul A. Gray** — B.S., University of Iowa; Ph.D., Michigan State University  
Associate Professor, Computer Science — 1999 (2004)
- \*Tammy S. Gregersen** — B.A., Bethel College; M.A., University of Las Condes, Chile; Ph.D., Catholic University of Valparaiso  
Assistant Professor, English Language and Literature — 2003
- \*Mark A. Grey** — B.A., University of Northern Colorado; M.A., Eastern New Mexico University; Ph.D., University of Colorado-Boulder  
Professor, Anthropology — 1990 (2001)  
Director, Iowa Center for Immigrant Leadership and Integration
- Linda L. Grimm** — B.A., M.A., University of Northern Iowa  
Instructor, Theatre — 1992 (1999)
- Patricia E. Gross** — B.S., M.S., Ph.D., University of Arizona  
Assistant Professor, Design, Textiles, Gerontology, & Family Studies — 2008
- \*John R. Groves** — B.S., M.S., University of Oklahoma; Ph.D., University of Iowa  
Associate Professor, Geology — 2000 (2004)
- Oksana Grybovych** — B.A., Institution of Economics and Law; M.S.c., Wageningen University Research Center; Ed.D., University of Northern Iowa  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2008
- Mary F. Guenther** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 1992
- \*Gary G. Gute** — B.A., M.A., University of Northern Iowa; Ph.D., Iowa State University  
Assistant Professor, Design, Textiles, Gerontology, & Family Studies — 1999 (2003)
- \*Robin D. Guy** — B.M.E., Baldwin-Wallace College Conservatory of Music; M.M., Baylor University; D.M.A., University of Arizona  
Professor, School of Music — 1990 (2001)
- \*Joel K. Haack** — B.A., M.S., M.S., Ph.D., University of Iowa  
Professor, Mathematics — 1991  
Dean of the College of Natural Sciences — 2006
- Tricia Haak** — B.A., M.S., University of Northern Iowa  
Instructor, School of Health, Physical Education, and Leisure Services — 2008  
Coordinator of Undergraduate Athletic Training Field Experience
- \*Carlin F. Hageman** — B.A., M.A., Ph.D., University of Colorado  
Professor, Speech-Language Pathology — 1982 (1999)
- \*David R. Hakes** — B.S., Ph.D., Iowa State University  
Professor, Economics — 1992 (1997)
- \*Frederick W. Halgedahl** — B.M., Eastman School of Music; M.M., Emporia State University  
Associate Professor, School of Music — 1986 (2005)
- \*Harry (Tom) T. Hall** — B.A., M.A., University of Arkansas; Ph.D., University of Oklahoma  
Assistant Professor, Communication Studies — 2003
- James G. Hall** — B.S., M.S., Eastern Illinois University  
Instructor, School of Health, Physical Education, and Leisure Services — 1983
- \*Nancy P. Hamilton** — B.A., San Jose State University; M.A., California State University-Los Angeles; Ph.D., University of Illinois  
Professor, Physical Education — 1987 (2000)
- \*Curtiss D. Hanson** — B.S., University of Nebraska-Omaha; Ph.D., Texas A&M University  
Professor, Chemistry and Biochemistry — 1989 (2001)
- \*James G. Hanson** — B.S., Southwest Missouri State University; M.S.W., University of Georgia; Ph.D., University of Kansas  
Associate Professor, Social Work — 1990 (1995)
- \*Helen C. Harton** — B.A., Wake Forest University; M.A., Ph.D., Florida Atlantic University  
Professor, Psychology — 1997 (2007)
- \*William S. Harwood** — B.S., University of Massachusetts; Ph.D., Purdue University; Post-doctoral, Eastern Michigan University  
Professor, Chemistry and Biochemistry  
Head of Department of Chemistry and Biochemistry — 2006
- \*Charlotte Haselhuhn** — B.S., Ed.S., University of Iowa; Ph.D., Iowa State University  
Assistant Professor, Educational Psychology and Foundations — 2002
- Rebecca Wilson Hawbaker** — B.A., University of Northern Iowa; M.A., University of Iowa  
Instructor of Teaching, Price Laboratory School — 1998
- \*Richard Allen Hays, Jr.** — B.A., Johns Hopkins University; M.A., Ph.D., University of North Carolina  
Professor, Political Science — 1979 (1994)  
Director of Graduate Program in Public Policy — 1994
- Chad E. Heinzel** — B.S., University of Iowa; M.S., University of Minnesota-Duluth; Ph.D., Northern Illinois University  
Assistant Professor, Geology and Science Education — 2007
- \*Deirdre Heistad** — B.A., M.A., University of Iowa; Ph.D., University of Illinois, Urbana-Champaign  
Associate Professor, Modern Languages — 2000 (2006)
- Barbara A. Heitzman** — B.F.A., University of Michigan; M.A.E., University of Northern Iowa  
Instructor, Curriculum and Instruction — 1990 (2003)
- \*Carole Singleton Henkin** — A.B., M.A., University of Alabama; Ph.D., University of Wisconsin-Madison; M.S.W., Certificate in Aging Studies, University of Iowa  
Professor, Social Work — 1989 (1999)
- \*John E. Henning** — B.A., Pennsylvania State University; M.Ed., Ph.D., Kent State University  
Associate Professor, Educational Psychology and Foundations — 1999 (2004)
- Maria C. Henning** — B.A., Mount Union College; M.A., Kent State  
Instructor of Teaching and Coordinator of Student Teaching — 2002
- Leasha Henriksen** — B.A., University of Northern Iowa  
Instructor, Teaching — 2004 (2005)
- \*Larry D. Hensley** — B.A., Southern Methodist University; M.S., Indiana University; Ed.D., University of Georgia  
Professor, Physical Education — 1979 (1990)  
Associate Director of the School of Health, Physical Education, and Leisure Services — 2000
- Randy S. Herman** — B.S., Iowa State University  
Major and Assistant Professor, Military Science — 2006
- \*Cynthia J. Herndon** — B.S., Springfield College; Ph.D., University of Wisconsin-Madison  
Professor, Physical Education — 1985 (2003)
- \*Mary C. Herring** — B.S., M.S., North Dakota State University; Ph.D., Iowa State University  
Associate Professor, Curriculum and Instruction — 2000 (2007)  
Interim Associate Dean College of Education — 2008

## 2008 Faculty

- \*Reinier H. Hesselink** — B.A., University of Amsterdam; Ph.D., University of Hawaii-Manoa  
Professor, History — 1995 (2006)
- \*Melissa L. Heston** — B.S., Oklahoma State University; M.S., Ph.D., Indiana University  
Associate Professor, Educational Psychology and Foundations — 1989 (1997)
- \*Wallace A. Hettle** — B.A., Ph.D., Northwestern University  
Associate Professor, History — 1994 (2000)
- \*Clifford L. Highnam** — B.A., Western Washington State College; M.S.P.A., University of Washington; Ph.D., Bowling Green State University  
Professor, Communication Sciences and Disorders — 1975 (1994)  
Head of the Department of Communication Sciences and Disorders — 2001
- \*Carolyn Hildebrandt** — B.A., University of California—Los Angeles; M.A., University of California-Davis; Ph.D., University of California-Berkeley  
Professor, Psychology — 1994 (2007)
- \*Susan E. Hill** — B.A., Macalester College; M.A., Ph.D., University of Chicago  
Associate Professor, World Religions — 1994 (2000)
- \*John T. Hines** — B.M., Heidelberg College; M.M. Kent State University; D.M.A., The Shenandoah University Conservatory of Music  
Assistant Professor, School of Music — 2006
- \*Theron J. Hitchman** — B.S., Ohio State University; Ph.D., University of Michigan  
Assistant Professor, Mathematics — 2007
- \*Robert T. Hitlan** — B.A., University of Toledo; M.S., Illinois State University; Ph.D., University of Texas-El Paso  
Associate Professor, Psychology — 2002 (2007)
- \*Thomas A. Hockey** — B.S., Massachusetts Institute of Technology; M.A., M.S., Ph.D., New Mexico State University  
Professor, Astronomy — 1988 (1999)
- Lowell R. Hoeft** — B.S., University of Wisconsin-Stevens Point; M.A., University of Northern Iowa  
Instructor of Teaching and Coordinator of Student Teaching — 1987 (2003)
- \*Donna R. Hoffman** — B.A., Phillips University; Ph.D., University of Oklahoma  
Associate Professor, Political Science — 2001 (2007)
- Sheryl J. Hoffman** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 1994 (2000)
- \*Randy A. Hogancamp** — B.A., University of Northern Iowa; M.M., Northwestern University  
Associate Professor, Percussion — 1972 (2004)
- \*Charles W. Holcombe** — B.A., M.A., Ph.D., University of Michigan  
Professor, History — 1989 (2001)
- \*Margaret G. Holland** — B.A., M.A., Boston College; Ph.D., State University of New York-Buffalo  
Associate Professor, Philosophy — 1991 (1998)
- \*Gloria Kirkland Holmes** — B.A., Fisk University; M.S., Ph.D., Indiana State University  
Associate Professor, Curriculum and Instruction — 1978 (1983)
- Justin Holmes** — B.A., University of Illinois-Urbana-Champaign; Ph.D., University of Minnesota  
Assistant Professor, Political Science — 2008
- \*Soo Hostetler** — B.F.A., Young-Nam University, Korea; M.A., University of Northern Iowa; M.F.A., Iowa State University  
Assistant Professor, Art — 2005
- \*Douglas R. Hotek** — B.S., Northern Arizona University; M.A., San Diego State University; D.I.T., University of Northern Iowa  
Associate Professor, Industrial Technology — 2000 (2006)
- \*Susan D. Hudson** — B.A., University of California-Davis; M.S., California State University-Los Angeles; Ph.D., University of Utah  
Professor, School of Health, Physical Education, and Leisure Services — 1994
- \*Janet R. Hurley** — B.A., University of Arkansas; M.A., M.S., Ph.D., Southern Illinois University  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2000
- \*Julie E. Husband** — B.A., Bucknell University; M.A., University of Chicago; Ph.D., State University of New York—Buffalo  
Associate Professor, English Language and Literature — 2000 (2007)
- \*Mohammed Z. Iqbal** — B.S., M.S., Dhaka University, Bangladesh; M.S., University of Akron; Ph.D., Indiana University  
Professor, Geology — 1994 (2006)
- \*Hans R. Isakson** — B.S., Ph.D., University of Wisconsin-Milwaukee  
Professor, Economics — 1990 (2000)
- \*Karthik N.S. Iyer** — B.E., Bangalore University, India; M.B.A., Banaras Hindu University, India; Ph.D., Oklahoma State University  
Assistant Professor, Marketing — 2003
- \*Laura L. Jackson** — B.A., Grinnell College; Ph.D., Cornell University  
Professor, Biology — 1993 (2005)
- \*Michael D. Janopoulos** — B.S., M.A., Northwestern University; M.A., University of Northern Iowa; Ph.D., Ohio State University  
Associate Professor, English — 1989 (1995)
- \*Lisa K. Jepsen** — B.A., Grinnell College; M.A., University of Missouri, Kansas City; Ph.D., Vanderbilt University  
Associate Professor, Economics — 2000 (2006)
- \*Charles D. Johnson** — B.S., Florida State University; M.I.E., Western Carolina University; Ed.D., North Carolina State University  
Professor, Industrial Technology — 1981 (1993)
- \*John W. Johnson** — B.A., St. Olaf College; M.A., Ph.D., University of Minnesota  
Professor, History — 1988  
Interim Dean of College of Social and Behavioral Sciences — 2008
- \*Mary Frisbee Johnson** — B.A., Montana State University; M.F.A., University of Cincinnati  
Professor, Art — 1999
- \*Ronald W. Johnson** — B.M.E., Texas Technical University; M.A., California State University-Northridge; Ed.D., University of Illinois  
Professor, Conducting — 1982 (1996)
- Steven J. Johnson** — B.A., Union College, Nebraska; M.S., University of Nebraska-Lincoln; Ph.D., University of Utah  
Assistant Professor, Finance — 2003
- \*Elana Joram** — B.A., M.A., Ph.D., University of Toronto  
Associate Professor, Educational Psychology and Foundations — 1995 (1998)
- \*Sue A. Joseph** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, School of Health, Physical Education, and Leisure Services — 1990 (2001)  
Interim Dean of the Graduate College (2007)
- \*Cynthia L. Juby** — B.A., M.S.W., Ph.D., University of Texas, Arlington  
Assistant Professor, Social Work — 2006
- \*James E. Jurgenson** — B.S., University of Minnesota; M.S., Ph.D., University of Arizona  
Professor, Biology — 1992 (2002)
- \*Bryce E. Kanago** — B.A.E., Wayne State College; Ph.D., University of Iowa  
Associate Professor, Economics — 2000 (2004)

- \*Shashidhar Kaparthy** — B.Tech., Indian Institute of Technology; Ph.D., State University of New York-Buffalo  
Associate Professor, Management — 1992 (1998)  
Interim Director, Office of Institutional Research — 2007
- \*Laura Kaplan** — B.A., Richmond College; M.S.W., Ph.D., University of Kentucky-Lexington  
Assistant Professor, Social Work — 2003
- \*Rex A. Karsten** — B.S., Michigan State University; M.A., Central Michigan University; Ph.D., University of Nebraska-Lincoln  
Associate Professor, Management (Management Information Systems) — 1994 (2003)
- \*Ali E. Kashef** — B.S., Lincoln University, Jefferson City; M.S., Central Missouri State University; Ph.D., Southern Illinois University  
Professor, Industrial Technology — 1992 (2001)
- \*Thomas W. Keefe, III** — B.A., University of Colorado; M.S.W., University of Denver; D.S.W., University of Utah  
Professor, Social Work — 1973 (1982)  
Director of the Master of Social Work Program — 2002  
Head of the Department of Social Work — 1990
- \*James L. Kelly** — B.S., M.S., Mankato State College; Ph.D., University of Nebraska-Lincoln  
Professor, Teaching and Coordinator of Student Teaching — 1969 (1990)
- \*Kathleen A. Kerr** — B.A., M.A., Stanford University; Ph.D., Texas Women's University  
Professor, Physical Education — 1989 (1997)
- \*Thomas L. Kessler** — B.G.S., M.A., M.B.A., University of Iowa  
Associate Professor and Bibliographer — 1983 (1993)
- Dennis W. Kettner** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 1975
- \*Tim E. Kidd** — B.S., Ph.D., University of Illinois at Urbana  
Assistant Professor, Physics — 2005
- \*Syed N.U.A. Kirmani** — B.S., M.S., Lucknow University, India; Ph.D., Aligarh Muslim University, India  
Professor, Mathematics — 1984 (1991)
- \*Michael L. Klassen** — B.A., Tabor College; M.A.T., Mennonite Seminary; M.S., Ph.D., Kansas State University  
Associate Professor, Marketing — 1987 (1992)
- \*Christopher L. Kliewer** — B.A., Iowa State University; M.S., Ph.D., Syracuse University  
Professor, Special Education — 1995 (2006)
- \*Jerome F. Klinkowitz** — B.A., M.A., Marquette University; Ph.D., University of Wisconsin  
Professor, English — 1972 (1976)
- \*Kimberly Knesting** — B.A., Carthage College; Ph.D., Indiana University  
Associate Professor, Educational Psychology and Foundations — 2003 (2006)
- Rick L. Knivsland** — B.A., Gustavus Adolphus College; M.A., University of Iowa  
Instructor of Teaching, Price Laboratory School — 1992
- Karla Koch** — B.A., University of Northern Iowa  
Instructor, Teaching — 2005
- Alexandra Kogl** — B.A., University of California-Santa Cruz; M.A., Ph.D., University of Maryland  
Assistant Professor, Political Science — 2003
- \*Frank W. Kohler** — B.A., St. Cloud State University; M.A., Ph.D., University of Kansas  
Associate Professor, Special Education — 1999 (2001)  
Interim Head of the Department of Special Education — 2007
- Ronald J. Koinzan** — B.A., Trinity University; M.F.A., Temple University  
Instructor, Theatre — 2008
- Elizabeth Koopman Hughes** — B.S., Dickinson College; M.A.Ed., Wake Forest University; Ed.D., University of Pittsburgh  
Assistant Professor, Mathematics — 2008
- \*Beverly A. Kopper** — B.A., State University of New York-Buffalo; M.S.S.W., University of Wisconsin-Madison; M.S., Ph.D., Iowa State University  
Professor, Psychology — 1990 (2001)  
Associate Provost for Academic Affairs — 2007
- Christopher L. Kowalski** — B.A., Creighton University; M.A., University of Idaho; Ed.D., University of Northern Iowa  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2000 (2007)
- \*Karla K. Krueger** — B.A., Luther College; M.A., University of Northern Iowa  
Instructor, Curriculum and Instruction — 1996 (2004)
- \*Robert R. Krueger** — B.A., Ph.D., University of Minnesota  
Associate Professor, Modern Languages — 1984 (1991)
- \*Roger A. Kueter** — B.A., Loras College; M.A., Ed.D., Indiana University  
Professor, Education — 1970 (1988)  
Director of Community College Projects, 2+2 Program — 2005
- \*Mohammad Reza Lahroodi** — B.A., M.A., Tehran University; Ph.D., University of Illinois at Urbana-Champaign  
Associate Professor, Philosophy — 2001 (2007)
- \*Anne V. Lair** — B.A., University of Wisconsin; M.A., Ph.D., Ohio State University  
Assistant Professor, Modern Languages — 2003
- \*Adrienne P. Lamberti** — B.A., Simpson College; M.A., Ph.D., Iowa State University  
Assistant Professor, English Language and Literature — 2005
- \*David B. Landis** — B.A., Whitman College; M.Ed., Montana State University; Ed.D., University of Massachusetts-Amherst  
Associate Professor, Curriculum and Instruction — 1995 (2001)
- \*Eric R. Lange** — B.A., Trinity University; M.F.A., Temple University  
Associate Professor, Theatre — 1995 (2001)  
Head of Department of Theatre — 2004
- \*Samuel V. Lankford** — B.A., M.A., California State University-Chico; M.U.R.P., Ph.D., University of Oregon  
Professor, Leisure, Youth and Human Services — 2001 (2002)
- Christopher W. Larimer** — B.A., University of Northern Iowa; M.A., Ph.D., University of Nebraska-Lincoln  
Assistant Professor, Political Science — 2006
- Katherine Lavelle** — B.A., John Carroll University; M.A. Miami University; Ph.D., Wayne State University  
Assistant Professor, Communication Studies — 2008
- \*Cherin A. Lee** — B.A., M.A., University of Northern Iowa; Ph.D., Kansas State University  
Associate Professor, Biology — 1981 (2002)
- \*Kui-Im Lee** — B.A., Seoul National University; Ph.D., University of Pennsylvania  
Assistant Professor, Music — 2005
- \*Min H. Lee** — B.S., M.S., Seoul National University, Korea; Ph.D., State University of New York-Stony Brook  
Professor, Mathematics — 1986 (1996)
- Robert E. Lee** — B.A., M.A., University of Northern Iowa  
Instructor, School of Health, Physical Education, and Leisure Services — 1981 (1986)
- \*Jay T. Lees** — B.A., Gettysburg College; M.A., Ph.D., Tulane University  
Associate Professor, History — 1987 (1993)
- Kipp D. Lenth** — B.S., University of Wisconsin—Platteville  
Major and Assistant Professor, Military Science — 2007

## 2008 Faculty

- \*Lucille J. Lettow** — B.A., University of Northern Iowa; M.A., University of Missouri-Columbia; M.A., University of Northern Iowa  
Professor and Youth Collection Librarian — 1980 (1997)
- \*Larry P. Leutzinger** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Associate Professor, Mathematics — 1988 (2000)
- \*Jian (Lee) Li** — B.A., Southwest China Normal University; M.A., Lock Haven University of Pennsylvania; M.A., Ph.D., University of Kansas  
Assistant Professor, Anthropology — 2001 (2003)
- \*Michael J. Licari** — B.A., University of Minnesota; M.A., Ph.D., University of Wisconsin-Milwaukee  
Associate Professor, Political Science — 2001 (2003)  
Interim Associate Dean of the Graduate College — 2008
- \*Timothy Lindquist** — B.S., Northern Michigan University; M.B.A., Michigan State University; Ph.D., University of Colorado-Boulder  
Associate Professor, Accounting — 1991 (1997)
- \*Bin Liu** — M.S., Shanghai University of Science & Technology; Ph.D., Chinese Academy of Sciences  
Assistant Professor, Mathematics — 2007
- Amy Lockhart** — B.A., Wartburg College; M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2000
- \*Mary E. Losch** — B.S., Murray State University; M.A., Ph.D., University of Iowa  
Professor, Psychology — 1998 (2007)
- \*Julie C. Lowell** — B.A., Ohio Wesleyan University; M.Ed., Boston University; M.A., Ph.D., University of Arizona  
Associate Professor, Anthropology — 1987 (1995)
- \*James F. Lubker** — B.S., Mankato State College; M.A., Ph.D., University of Iowa  
Professor, Communication Sciences and Disorders — 1995  
Interim Executive Vice President and Provost — 2008
- Chris E. Lukasiewicz** — B.S., Colorado State University-Fort Collins; M.S., Postgraduate School in Monterey  
Lieutenant Colonel and Head of the Department of Military Science — 2005
- \*Robin J. Lund** — B.A., Whitworth College; M.S., Eastern Washington University; Ph.D., University of Idaho  
Associate Professor, School of Health, Physical Education, and Leisure Services — 2002 (2008)
- \*Shangzhen Luo** — B.S., Nankai University, China; M.A., Hong Kong University of Science and Technology; Ph.D., University of Missouri-Columbia  
Assistant Professor, Mathematics — 2005
- \*Gene M. Lutz** — B.S., M.S., Ph.D., Iowa State University  
Professor, Sociology — 1973 (1986)  
Director of Center for Social and Behavioral Research
- \*Stanley P. Lyle** — B.A., University of Northern Iowa; M.A., University of Iowa; M.B.A., University of Northern Iowa  
Professor and Reference Librarian and Bibliographer — 1977 (2005)
- \*Annette F. Lynch** — B.A., M.A., University of Iowa; Ph.D., University of Minnesota  
Associate Professor, Design, Textiles, Gerontology, & Family Studies — 1991 (1999)
- Jianping Ma** — B.A., Anhui University, China  
Instructor, School of Health, Physical Education, and Leisure Services — 2008  
Director, U.S.A. Training Center
- \*Catherine A.F. MacGillivray** — A.B., Barnard College; M.A., University de Paris VIII; Ph.D., University of California-Berkeley  
Associate Professor, English — 1996 (1999)
- \*Kristin Mack** — B.A., Marquette University; M.A., Ph.D., Iowa State University  
Associate Professor, Sociology — 1996 (2004)  
Coordinator of Graduate Studies in Sociology
- \*Mickey G. Mack** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Associate Professor, School of Health, Physical Education, and Leisure Services — 1995 (2002)  
Associate Director of School of Health, Physical Education, and Leisure Services — 2007
- \*M. Kimberly MacLin** — B.A., University of California-Riverside; Ph.D., University of Nevada-Reno  
Associate Professor, Psychology — 2001 (2006)  
Acting Head of the Department of Psychology — 2007
- \*Otto H. MacLin** — B.A., M.A., University of Central Oklahoma; Ph.D., University of Nevada-Reno  
Associate Professor, Psychology — 2001 (2007)
- \*Donna J. Maier** — B.A., College of Wooster; M.A., Ph.D., Northwestern University  
Professor, History — 1978 (1986)
- James A. Maltas** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 1991
- \*Kirk P. Manfredi** — B.S., Rocky Mountain College; Ph.D., Montana State University  
Professor, Chemistry and Biochemistry — 1991 (2004)
- Joseph J. Marchesani** — B.A., Fordham University; M.S., Brooklyn College; M.Ed., Temple University  
Assistant Professor, Curriculum and Instruction  
Coordinator of Audio and Video Production for the Center for Educational Technology — 1972 (1977)
- \*Jerilyn A. Marshall** — B.A., Purdue University; M.L.S., Vanderbilt University; M.A., Northwestern University  
Associate Professor and Head of Reference and Instructional Services — 1998 (2007)
- \*Ripley E. Marston** — B.S., James Madison University; M.S., University of Tennessee-Knoxville; Ph.D., University of Iowa  
Professor, School of Health, Physical Education, and Leisure Services — 1976 (2003)
- \*Christopher Martin** — B.A., Capitol University; M.A., Emerson College; Ph.D., University of Michigan  
Associate Professor, Communication Studies
- \*Katherine F. Martin** — A.B., Douglas College, Rutgers; M.S.L.S., M.A., University of North Carolina-Chapel Hill  
Associate Professor, Library Science — 1993  
Head of Collection Management and Special Services — 1982 (1988)
- Leigh C. Martin** — B.A., University of Northern Iowa; M.A., Framingham State College  
Instructor of Teaching and Coordinator of Student Teaching — 2004
- \*Robert F. Martin** — B.A., Wofford College, South Carolina; M.A., Ph.D., University of North Carolina-Chapel Hill  
Professor, History — 1981 (1990)  
Head of the Department of History — 2003
- \*James E. Mattingly** — B.S.B.A., Avila College; M.B.A., Southwest Missouri State University; Ph.D., University of Missouri  
Assistant Professor, Management — 2003
- \*Oksana A. Matvienko** — B.A., The Herten State Pedagogical University of Russia, St. Petersburg; M.A., University of Northern Iowa; Ph.D., Iowa State University  
Assistant Professor, Physical Education — 2004

**\*Philip Mauceri** — B.A., M.A., New York University; Ph.D., Columbia University  
Professor, Political Science — 1994 (2005)  
Head of the Department of Political Science — 2005

**\*Charles R. May** — B.S., West Texas State University; M.A., Eastern New Mexico University; Ph.D., Ohio State University; Ed.D., Vanderbilt University  
Professor, Curriculum and Instruction — 1982

**\*David W. May** — B.G.S., University of Kansas; M.A., University of California—Davis; Ph.D., University of Wisconsin-Madison  
Professor, Geography — 1985 (2002)

**\*Tony N. McAdams** — B.A., University of Northern Iowa; J.D., University of Iowa; M.B.A., Columbia University  
Professor, Management — 1982

**Janet E. McClain** — B.S., Northern Illinois University; M.S.Ed., University of Dayton  
Instructor, Curriculum and Instruction  
Director of Minorities in Teaching Program — 1976

**David McClenahan** — A.S., B.S., University of Wisconsin; D.V.M., Ph.D., University of Minnesota  
Assistant Professor, Biology — 2008

**\*John W. McCormick** — B.S., The Pennsylvania State University; Ph.D., University of California-Los Angeles  
Professor, Computer Science — 1996

**\*Kenneth J. McCormick** — B.A., University of California-Riverside; Ph.D., Iowa State University  
Professor, Economics — 1982 (1991)

**\*James G. McCullagh** — B.A., California State College-Chico; M.S.S.W., University of Missouri-Columbia; Ed.D., Northern Illinois University-DeKalb; J.D., University of Iowa  
Professor, Social Work — 1981 (1989)

**Shelley McCumber** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2003

**Mary H. McDade** — B.S., University of West Florida; M.S., Oregon State University  
Instructor, Biology — 1995

**\*Jean M. McDonald** — B.M., Simpson College; M.A., D.M.A., University of Iowa  
Associate Professor, School of Music — 1988 (1996)

**Ramona McNeal** — B.S., M.S., Ohio University; M.S., M.A., M.A., University of Akron; Ph.D., Kent State University  
Assistant Professor, Political Science — 2007

**\*Ardith J. Meier** — B.A., Wartburg College; M.A., University of Iowa; Ph.D., University of Vienna, Austria  
Professor, English — 1992 (2005)

**\*Marilyn Mercado** — B.A., Point Park College; M.L.S., University of Pittsburgh; M.A., University of Northern Iowa  
Associate Professor, Library Science — 1989 (1995)  
Dean of Library Services — 2002

**\*Kurtis S. Meredith** — B.A., University of Southern Maine; M.Ed., Ed.S., James Madison University; Ph.D., University of Iowa  
Interim Assistant Provost for International Programs — 2008  
Associate Professor, Curriculum and Instruction — 1994 (2001)

**\*Christopher L. Merz** — B.M., University of Iowa; M.M., University of Massachusetts  
Associate Professor, School of Music — 2000 (2006)

**\*Joyce B. Milambiling** — B.L.S., Boston University; M.A., University of California-Berkeley; Ph.D., City University of New York  
Associate Professor, English — 1997 (2003)

**\*Catherine M. Miller** — B.A., M.A., California State-Long Beach; Ph.D., University of Arizona  
Associate Professor, Mathematics — 1997 (2003)

**Kim Miller** — B.A., Wartburg College; M.S., Northwest Missouri State University  
Instructor of Teaching, Price Laboratory School — 1985

**\*Karen S. Mitchell** — B.S., M.S., Southern Illinois University; Ph.D., Louisiana State University  
Professor, Communication Studies — 1991 (2005)  
Department of Communication Studies Graduate Program Director — 2005

**\*Atul Mitra** — B.Tech., Malaviya Regional Engineering College; M.Tech., Indian Institute of Technology, New Delhi; Ph.D., University of Arkansas  
Associate Professor, Management — 2000

**\*Janey L. Montgomery** — A.B., M.S., Fort Hays State University; Ph.D., Iowa State University  
Associate Professor, Teaching — 1990 (1995)  
Coordinator of Student Teaching — 1990

**\*Susan M. Moore** — B.A., University of Northern Iowa; M.A., University of Iowa; M.A., University of Arizona  
Associate Professor and Cataloging Librarian and Bibliographer — 1996 (2001)

**Jillissa M. Moorman** — B.F.A., M.F.A., Iowa State University  
Assistant Professor, Design, Textiles, Gerontology, & Family Studies — 2008

**\*Jeffrey T. Morgan** — B.S. Walla Walla College; Ph.D., University of Maine  
Assistant Professor, Physics and Science Education — 2006

**\*Leslie A. Morgan** — B.M., California State University-Fullerton; M.A., D.M.A., University of Iowa  
Associate Professor, School of Music — 1986 (2002)

**\*Siobahn M. Morgan** — B.S., University of Minnesota; M.S., Ph.D., University of Washington  
Professor, Astronomy — 1991 (2003)  
Associate Dean of the College of Natural Sciences — 2006

**Jayne Witte** — B.A., North Dakota State University; M.A., University of Wisconsin-Madison; Ph.D., University of Nebraska  
Associate Professor, Communication Studies — 1998 (2007)

**\*Farzad Moussavi** — B.A., Institute of Advanced Accounting, Iran; D.A.S., Leeds Polytechnic, England; M.B.A., Roosevelt University; Ph.D., University of Arkansas  
Professor, Management — 1985 (1997)  
Dean of the College of Business Administration — 2003

**\*Douglas Mupasiri** — B.A., Lewis University; M.S., Ph.D., Northern Illinois University  
Associate Professor, Mathematics — 1993 (2001)

**\*Pierre Damien Mvuyekure** — M.A., National University of Rwanda; M.A., Ph.D., State University of New York-Buffalo  
Professor, English Language and Literature — 1995 (2006)

**\*Mark C. Myers** — A.B., Kenyon College; M.S., Ph.D., University of Minnesota  
Assistant Professor, Biology — 2006

**\*Anne G. Myles** — A.B., Bryn Mawr College; M.A., Ph.D., University of Chicago  
Associate Professor, English — 1999 (2005)

**\*Linda J. Nebbe** — B.S., M.S., Ph.D., Iowa State University  
Assistant Professor, Educational Leadership, Counseling, and Postsecondary Education — 2005

**\*Glenn T. Nelson** — B.Ed., Keene State College; M.S.T., University of New Hampshire; Ph.D., University of Iowa  
Associate Professor, Mathematics — 1974 (1980)

**\*Lauren K. Nelson** — B.S., Northern Michigan University; M.A., Central Michigan University; Ph.D., Memphis State University  
Associate Professor, Speech-Language Pathology — 1990 (1993)

## 2008 Faculty

- \*Christopher F. Neuhaus** — B.S., University of Michigan; M.S., M.L.S., University of South Carolina  
Associate Professor and Library Instruction Coordinator and Reference Librarian — 1994 (2000)
- \*Ellen E. Neuhaus** — B.S., University of Michigan; M.A.T., M.L.S., University of South Carolina  
Associate Professor and Reference Librarian and Bibliographer — 1997 (2003)
- \*Genevra C. Neumann** — S.B., University of Chicago; M.S., M.S., M.A., Ph.D., University of California-Berkeley  
Assistant Professor, Mathematics — 2006
- \*Hong (Jeffrey) Nie** — B.E., M.E., Tsinghua University; Ph.D., University of British Columbia  
Assistant Professor, Industrial Technology — 2006
- Curtis P. Nielsen** — B.A., B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2000
- \*Lynn E. Nielsen** — B.A., University of Iowa; M.A., University of Northern Iowa; Ph.D., University of Iowa  
Professor, Curriculum and Instruction — 1980 (1992)
- \*Jihwa Noh** — B.S., M.Ed., Sung Kyun Kwan University, Korea; Ph.D., Western Michigan University  
Assistant Professor, Mathematics — 2004
- Heidi Noonan-Day** — B.A., J.D., University of Iowa  
Instructor, Management — 2000
- Jill Nooren** — B.A., M.A., University of Northern Iowa; Ph.D., University of Iowa  
Assistant Professor, Curriculum and Instruction — 2007
- Kathy R. Oakland** — B.A., M.A., University of Northern Iowa  
Instructor, Teaching — 1987
- \*Alex P. Oberle** — B.A., University of Northern Colorado; M.A., University of Missouri-Columbia; Ph.D., Arizona State University  
Assistant Professor, Geography — 2005
- \*Tyler G. O'Brien** — B.A., State University of New York-Plattsburgh; M.A., University of Tennessee-Knoxville; Ph.D., Binghamton University, State University of New York  
Assistant Professor, Anthropology — 2002
- Penny J. O'Connor** — B.A., M.A., University of Northern Iowa  
Instructor, Communication Studies — 1988
- \*Timothy E. O'Connor** — B.A., M.A., Creighton University; Ph.D., University of Minnesota  
Professor, History — 1982 (1992)
- \*Christian W. Ogbondah** — B.A., University of Nigeria; M.A., University of Nebraska; Ph.D., Southern Illinois University  
Professor, Journalism — 1989 (1998)
- \*Kevin C. O'Kane** — B.S., Boston College; Ph.D., Pennsylvania State University  
Professor, Computer Science — 1992
- \*Stephen L. O'Kane** — B.S., M.S., Colorado State University; Ph.D., Washington University-St. Louis  
Professor, Biology — 1996 (2007)
- Vicki Oleson** — B.A., M.A., University of Northern Iowa  
Instructor, Mathematics — 1996
- Gabriela Olivares-Cuhat** — B.A., Catholic University of Chile; M.A., Ph.D., Purdue University  
Assistant Professor, Modern Languages — 2007
- \*James B. O'Loughlin** — B.A., Trinity College; M.A., Boston College; Ph.D., State University of New York-Buffalo  
Assistant Professor, English — 2003
- \*Ronald E. O'Meara** — B.T., M.A., D.I.T., University of Northern Iowa  
Professor, Industrial Technology — 2000 (2007)
- \*Heather Olsen** — B.A., M.A., Ed.D., University of Northern Iowa  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2007  
Project Coordinator, National Program for Playground Safety
- Jessica I. Olsen** — B.A., University of Northern Iowa; M.S., Western Maryland College  
Instructor of American Sign Language — 2000
- \*Dale W. Olson** — B.S., Carleton College; Ph.D., University of Rochester  
Professor, Physics — 1968 (1992)
- \*Wendy M. Olson** — B.A., Mt. Holyoke College; Ph.D., University of California—Berkeley  
Assistant Professor, Biology — 2003
- \*John Ophus** — B.A., Concordia College; M.S., Ph.D., University of Idaho  
Assistant Professor, Biology and Science Education — 2005
- \*J. Henry Owusu** — B.A., University of Science and Technology, Ghana; M.S., Indiana University of Pennsylvania; M.A., Ph.D., University of Iowa  
Associate Professor, Geography — 2000 (2004)
- \*Nicholas J. Pace** — B.A., University of Northern Iowa; M.S., Drake University; Ed.D., University of Northern Iowa  
Assistant Professor, Educational Leadership, Counseling, and Postsecondary Education — 2000 (2005)
- Priya Padmanabhan** — B.T., Government Engineering College, Thrissur, India; Post Graduate Diploma, S.P. Jain Institute of Management and Research, Mumbai, India  
Instructor, Management — 2008
- \*Catherine Palczewski** — B.S., M.A., Ph.D., Northwestern University  
Professor, Communication Studies — 1994 (2003)
- Mark A. Parrott** — B.A. Graceland College; M.S., Central Missouri State University; M.F.A., Southern Illinois-Carbondale  
Instructor, Theatre — 1997
- Patrick P. Pease** — B.S., M.A., Indiana State University; Ph.D., Texas A&M University  
Associate Professor, Geography  
Head of the Department of Geography — 2006
- \*Recayi Pecen** — B.S., M.S., Istanbul Technology University; M.S., University of Colorado; Ph.D., University of Wyoming  
Associate Professor, Industrial Technology — 1998 (2004)
- \*Geraldine (Gerri) Perreault** — B.A., University of Minnesota; M.S., Mankato State University; Ph.D., University of Minnesota  
Associate Professor, Educational Leadership, Counseling, and Postsecondary Education — 1997
- Director of Leadership Studies — 1991**
- C. Scott Peters** — B.A., Truman State University; M.A., Ph.D., University of Kentucky  
Assistant Professor, Political Science — 2003
- \*Amy J. Petersen** — B.A., M.A.E., Ed.D., University of Northern Iowa  
Assistant Professor, Special Education — 2006
- \*Gerald L. Peterson** — A.B., A.M., M.S.L.S., University of Illinois  
Professor and Special Collections Librarian and University Archivist — 1974 (2001)
- \*Jean M. Petsch** — B.A., Iowa State University; M.A., University of Northern Iowa; M.A.T., University of South Carolina; Ph.D., Florida State University  
Associate Professor, Art — 1999 (2003)
- \*Carol L. Phillips** — B.S., Ohio State University; M.A.T., Washington State University; Ed.D., University of Northern Colorado  
Associate Professor, Physical Education — 1975 (2002)

- \*Bruce L. Plakke** — B.A., M.A., Western Michigan University; Ph.D., Memphis State University  
Associate Professor, Communication Sciences and Disorders — 1978 (1991)
- \*Antonio Planells** — B.A., University of LaPlata, Argentina; M.A., Ph.D., Catholic University of America  
Professor, Modern Languages — 1992
- \*Gayle M. Pohl** — B.A., Xavier University; M.A., Ph.D., University of Kentucky  
Associate Professor, Communication Studies — 1993 (1997)
- \*Aleksandar Poleksic** — B.S., University of Montenegro, Yugoslavia; M.S., University of Belgrade, Yugoslavia; Ph.D., Florida State University  
Assistant Professor, Computer Science — 2005
- \*Kurt W. Pontasch** — B.S., M.S., University of Idaho; Ph.D., Virginia Polytechnic Institute and State University  
Associate Professor, Biology — 1989 (1994)
- \*P. Nageswara Rao Posinasetti** — B.S., Andhrea University, India; B.E., Sri Venka Teswara University, India; M.E., Birla Institute of Technology and Science, India; Ph.D., Indian Institute of Technology, India  
Professor, Industrial Technology — 2001 (2006)
- Kathleen K. Porter** — B.A., M.B.A., University of Northern Iowa  
Instructor, Marketing
- \*Daniel J. Power** — B.S., M.A., University of Iowa; M.B.A., Ph.D., University of Wisconsin-Madison  
Professor, Management (Management Information Systems) — 1989
- \*Laura J. Praglin** — B.A., Connecticut College; M.A., Yale University; M.A., Ph.D., University of Chicago  
Associate Professor, Social Work — 2001 (2007)
- \*Nilmani Pramanik** — B.S., Jadavpur University, India; M.S., Birla Institute of Technology and Science, India; Ph.D., Syracuse University, New York  
Assistant Professor, Industrial Technology — 2003
- \*Nancy Price** — B.A., Cornell College; M.A., University of Northern Iowa  
Professor, English — 1979
- \*Michael P. Prophet** — B.A., Shippensburg University, Pennsylvania; Ph.D., University of California-Riverside  
Associate Professor, Mathematics — 1999 (2000)
- Adele Queiroz** — B.S., Pontificia Universidade, Brazil; M.S., Fundacao Getulio Vargas, Brazil; Ph.D., University of Pittsburgh  
Assistant Professor, Management — 2007
- \*David J. Rachor** — B.M., B.M.E., Peabody College; M.M., D.M., Indiana University  
Professor, School of Music — 1989 (1999)
- \*K. N. Rajendran** — B.S., M.B.M., Banaras Hindu University; Ph.D., University of Iowa  
Associate Professor, Marketing — 1988 (1996)
- \*Allen Rappaport** — B.S., M.B.A., University of South Carolina; Ph.D., University of Texas—Austin  
Professor, Finance — 1982 (1990)
- \*Donna B. Raschke** — B.S., Oklahoma State University-Stillwater; M.S., Ph.D., University of Wisconsin-Madison  
Professor, Special Education — 1979 (1991)
- Betsy Ratchford** — B.A., M.B.A., University of Northern Iowa  
Instructor, Management — 2003
- \*Edward C. Rathmell** — B.A., Central College; Ed.M., Western Washington University; Ph.D., University of Michigan  
Professor, Mathematics — 1972 (1982)
- \*Mohammed Y.A. Rawwas** — B.A., Lebanese University, Beirut; M.B.A., American University at Beirut; Ph.D., University of Mississippi  
Professor, Marketing — 1991 (2003)
- \*Vera Y. Rayevskaya** — B.S., Ural State University, Russia; M.S., University of Nebraska-Lincoln; M.S., Ph.D., Vanderbilt University  
Assistant Professor, Mathematics — 2003
- \*Gregory A. Reed** — B.A., University of Northern Iowa; M.A., Truman State University; Ph.D., University of Iowa  
Assistant Professor, Teaching and Coordinator of Student Teaching — 2002 (2006)
- \*Martha J. Reineke** — B.A., Earlham University; M.A., Ph.D., Vanderbilt University  
Professor, World Religions — 1984 (1999)
- \*Basil J. Reppas** — B.A., University of Athens, Greece; M.A., American University of Beirut, Lebanon; Ph.D., University of Iowa  
Professor, Educational Psychology and Foundations — 1961 (1976)
- \*Gayle M. Rhineberger-Dunn** — B.A., College of St. Benedict; M.A., Colorado State University; Ph.D., Western Michigan University  
Assistant Professor, Criminology — 2005
- \*Jason M. Ribando** — B.S., Massachusetts Institute of Technology; Ph.D., University of California-San Diego  
Assistant Professor, Mathematics — 2000
- \*Jerry Ridenhour** — B.S., M.A., Central Missouri State College; Ph.D., Arizona State University  
Professor, Mathematics  
Head of the Department of Mathematics — 2003
- \*Paul E. Rider** — B.A., Drake University; M.S., Iowa State University; Ph.D., Kansas State University  
Professor, Chemistry and Biochemistry — 1969 (1979)
- \*Suzanne M. Riehl** — B.S., Tri-State University, Indiana; M.S., University of Illinois, Urbana-Champaign; Ph.D., Northern Illinois University  
Associate Professor, Mathematics — 2001 (2007)
- Beverly A. Riess** — B.A., University of Northern Colorado; M.A., University of Northern Iowa  
Instructor of Teaching and Coordinator of Student Teaching — 1991
- \*Brian Roberts** — B.A., M.A., California State University-Sacramento; Ph.D., Rutgers University  
Associate Professor, History — 2001 (2005)
- \*Cheryl A. Roberts** — B.A., Illinois State University; M.A., Ph.D., University of Illinois, Urbana-Champaign  
Professor, English — 1986 (2005)  
Head of the Department of Modern Languages — 2006
- \*Susan Roberts-Dobie** — B.A., M.A., University of Northern Iowa; Ph.D., Oregon State University  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2003 (2005)
- \*James B. Robinson** — B.A., Wabash College; M.A., Ph.D., University of Wisconsin-Madison  
Associate Professor, World Religions — 1971 (1980)
- \*Victoria L. Robinson** — B.A., M.A., Ed.D., University of Northern Iowa  
Associate Professor, Educational Leadership, Counseling, and Postsecondary Education — 1991 (2004)
- \*Susan M. Rochette** — B.A., Kent State University; M.A., Boston College; Ph.D., University of Wisconsin-Madison  
Associate Professor, English — 1994 (2003)
- \*Amy S. Rohrberg** — B.A., University of Wisconsin-Green Bay; M.F.A., Michigan State University  
Associate Professor, Theatre — 1996 (2002)
- \*Sara Rosell** — B.A., University of Havana; B.A., M.A., Ph.D., University of Iowa  
Associate Professor, Modern Languages — 1998 (2002)

## 2008 Faculty

- Linda Rosulek** — B.A., Purdue University; M.A., University of Northern Iowa  
Instructor of Teaching and Coordinator of Student Teaching — 2000
- \*Michael W. Roth** — B.S., Ph.D., Colorado State University  
Associate Professor, Physics — 2000 (2003)
- \*Roberta M. Roth** — B.S., Iowa State University; M.B.A., University of Minnesota; Ph.D., University of Iowa  
Associate Professor, Management — 1980 (1996)
- \*Konrad Sadkowski** — B.A., Brown University; M.A., Ph.D., University of Michigan  
Associate Professor, History — 1995 (2001)
- \*Barbara R. Safford** — B.S., Miami University; M.A., University of Denver; M.L.A., Johns Hopkins University; D.L.S., Columbia University  
Associate Professor, Curriculum and Instruction — 1990 (1998)
- \*Herbert D. Safford** — B.A., University of Vermont; M.A., Yale University; M.S.L.S., D.L.S., Columbia University  
Professor and Information Librarian and Bibliographer — 1989
- \*Md Salim** — B.S., Institute of Technology, Bangladesh; M.S., University of Leeds, England; Ph.D., North Carolina State University  
Professor, Industrial Technology — 1993 (2004)
- \*Kent L. Sandstrom** — B.A., M.A., Ph.D., University of Minnesota  
Professor, Sociology — 1992 (2003)  
Head of Department of Sociology, Anthropology, and Criminology — 2006
- David Saunders** — B.S., Oklahoma Panhandle State University; M.S., Empria State University; Ph.D., Kansas State University  
Professor, Biology — 2008  
Head of the Department of Biology
- \*Ben Schafer** — B.A., University of Northern Iowa; M.S., Ph.D., University of Minnesota  
Associate Professor, Computer Science — 2001 (2007)
- Carolyn S. Schellhardt** — B.S., M.A., Purdue University  
Instructor of Teaching and Coordinator of Student Teaching — 2002
- \*Dennis R. Schmidt** — B.A., Michigan State University; M.B.A., University of Wyoming; Ph.D., University of Nebraska-Lincoln; CPA; EA  
Professor, Accounting — 1993 (1998)
- \*Alan W. Schmitz** — B.M., M.M., University of New Mexico; Ph.D., Rutgers University  
Professor, School of Music — 2004  
Associate Director of Music - Undergraduate Studies — 1994
- \*JoAnn Schnabel** — B.F.A., Alfred University; M.F.A., Louisiana State University  
Professor, Art — 1990 (2001)
- \*Jean S. Schneider** — B.A., Wartburg College; M.A.E., Ed.D., University of Northern Iowa  
Assistant Professor, Curriculum and Instruction — 2002
- \*Robert A. Schneider** — B.A., M.S.W., Ph.D., University of Maryland  
Associate Professor, Social Work — 1999 (2002)
- \*Kathleen G. Scholl** — B.A., M.A., California State University-Chico; Ph.D., University of Minnesota  
Associate Professor, School of Health, Physical Education, and Leisure Services — 2001 (2007)
- Christine Schrage** — B.A., M.B.A., University of Northern Iowa  
Instructor, Management — 2007
- \*Merri L. Schroeder** — B.A., University of Northern Iowa; M.A., University of Iowa; Ph.D., University of Nevada-Las Vegas  
Assistant Professor — 1992 (2003)  
Director of Teacher Education — 2007
- \*Jonathan C. Schwabe** — B.M. University of Tennessee; M.A., Eastern Illinois University; D.M.A., University of South Carolina  
Professor, School of Music — 1992 (2007)
- \*Orlando A. Schwartz** — B.A., M.A., California State University-Long Beach; Ph.D., University of Kansas  
Professor, Biology — 1980 (1994)
- \*Axel Schwekendiek** — Diploma, Ph.D., Philipps-University, Germany  
Assistant Professor, Biology — 2006
- \*Ralph S. Scott** — B.A., Luther College; M.S.W., University of Wisconsin; Ph.D., University of Chicago  
Professor, Educational Psychology and Foundations — 1965 (1968)
- \*Robert D. Seager** — B.A., University of California-Santa Barbara; Ph.D., University of California-Davis  
Professor, Biology — 1981 (1992)
- LeaAnn Shaddox** — B.A., University of Northern Iowa; M.A., University of Iowa  
Instructor, School of Health, Physical Education, and Leisure Services — 1985 (1997)
- \*Paul M. Shand** — B.S., University of West Indies; M.S., Ph.D., Purdue University  
Professor, Physics — 1992 (2005)
- Julianna Shappy** — B.S., Springfield College; M.P.T., Shenandoah University; Ph.D., Springfield College  
Assistant Professor, Health, Physical Education, and Leisure Services — 2008
- \*Linda A. Sharp** — B.A., Buena Vista College; M.A., D.M.A., University of Iowa  
Assistant Professor, Teaching: Music — 1995 (2003)
- \*Douglas J. Shaw** — B.S., M.S., University of Illinois; Ph.D., University of Michigan  
Associate Professor, Mathematics — 1999 (2003)
- Marilyn M. Shaw** — B.A., M.A., University of Northern Iowa  
Instructor, of Communication Studies — 1990  
Director of Undergraduate Advising — 2000
- \*Donald E. Shepardson** — B.S., Eastern Illinois University; M.A., Ph.D., University of Illinois, Urbana-Champaign  
Professor, History — 1970 (1979)
- \*William J. Shepherd** — B.S.Ed., M.F.A., Ohio University  
Associate Professor, School of Music — 1976
- \*Paul J. Siddens** — B.A., Indiana University-Purdue University at Indianapolis; M.S., Ph.D., Southern Illinois University-Carbondale  
Associate Professor, Communication Studies — 1988 (1996)
- \*Nikolay N. Silkin** — Diploma, Ural State University, Russia; M.S., University of Nebraska-Lincoln; M.S., Ph.D., Vanderbilt University  
Assistant Professor, Mathematics — 2007
- \*Ira M. Simet** — A.B., Princeton University; Ph.D., University of Notre Dame  
Associate Professor, Chemistry and Biochemistry — 1986 (1992)
- Nancy Simet** — B.S., St. Mary's Dominican College; M.S., University of Notre Dame  
Instructor, Chemistry and Biochemistry — 1988 (2001)
- \*Patricia L. Sitlington** — B.A., St. Mary's College, Notre Dame; M.Ed., University of Hawaii-Honolulu; Ph.D., University of Kansas-Lawrence  
Professor, Special Education — 1992 (1996)
- Marek Sliwinski** — B.A., B.S., University of California-San Diego; Ph.D., University of Wisconsin-Madison  
Assistant Professor, Biology — 2008
- \*A. Gerald Smith** — B.S.B.A., University of Southern Mississippi; M.S., Oklahoma State University; Ph.D., University of Oklahoma; CPA; CIA  
Professor, Accounting — 1989



- \*Daryl D. Smith** — B.A., University of Iowa; M.S., University of South Dakota; Ph.D., University of Iowa  
Professor, Biology and Science Education — 1967 (1978)
- \*Gerald F. Smith** — B.A., University of Wisconsin-Madison; M.B.A., Temple University; Ph.D., University of Pennsylvania  
Professor, Management — 1995 (2003)
- Jacquelin J. Smith** — B.S., Dana College; M.A., University of Northern Iowa  
Instructor of Teaching and Coordinator of Student Teaching — 1992 (2003)
- \*John K. Smith** — B.S., M.A., Ph.D., University of Wisconsin-Madison  
Professor, Educational Psychology and Foundations — 1971 (1985)
- Lori A. Smith** — B.S., Iowa State University; M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1992
- Kelli Snyder** — B.A., University of Northern Iowa; M.S., University of Wisconsin-Milwaukee  
Instructor, School of Health, Physical Education, and Leisure Services — 2008  
Athletic Trainer for Track and Field and Cross Country
- Francesca Soans** — B.A., University of Madras, India; M.A., M.F.A., Temple University  
Assistant Professor, Electronic Media — 2005
- \*John W. Somerville** — B.A., Rhodes College; M.A., University of Mississippi; Ph.D., University of Arkansas  
Professor, Psychology — 1975 (1979)
- \*Marius M. Somodi** — Diploma, University of Bucharest; M.S., Ph.D., Louisiana State University  
Associate Professor, Mathematics — 2001 (2007)
- \*Jerome P. Soneson** — B.A., North Park College; M.Div., Harvard Divinity School; M.A., Ph.D., Harvard University  
Associate Professor, World Religions — 1991 (1995)  
Interim Head of the Department of Philosophy and World Religions — 2008
- \*Sarah B. Sorenson** — B.S., M.S., University of Wisconsin-Oshkosh; Ph.D., University of Minnesota  
Assistant Professor, Management — 2005 (2007)
- David G. Sparks** — B.A., University of Northern Iowa; CFA  
Instructor, Finance — 2007
- \*Michael S. Spencer** — B.S., Southern Illinois University-Carbondale; M.B.A., Southern Illinois University-Edwardsville; M.A., University of Northern Iowa; Ph.D., University of Georgia  
Professor, Management — 1992 (2003)
- \*Theresa A. Spradling** — B.S., Emporia State University; M.S., University of North Texas-Denton; Ph.D., Louisiana State University  
Associate Professor, Biology — 2000 (2005)
- Aaron J.H. Spurr** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1998
- \*Marybeth Stalp** — B.A., Regis University; M.A., Southern Illinois University-Carbondale; Ph.D., The University of Georgia  
Assistant Professor, Sociology — 2003
- \*Thomas R. Stancliffe** — B.S., Illinois State University; M.F.A., Northern Illinois University  
Professor, Art — 1988 (2001)
- \*Adrienne M. Stanley** — B.S., M.S., Ph.D., University of Kansas  
Associate Professor, Mathematics — 1999 (2003)
- \*Amy Staples** — B.A., Augustana College; M.Ed., Ph.D., University of North Carolina, Chapel Hill  
Assistant Professor, Special Education — 2002
- \*Jeannie L. Steele** — B.A., University of North Carolina-Charlotte; M.Ed., James Madison University; Ph.D., University of Virginia  
Professor, Curriculum and Instruction — 1987 (1998)
- \*Gregory P. Stefanich** — B.S., University of Minnesota-Duluth; M.S., University of Minnesota-Minneapolis; Ed.D., University of Montana  
Professor, Curriculum and Instruction — 1976 (1981)
- \*Bridgette Stevens** — B.A., M.A., University of Northern Iowa; Ph.D., University of Missouri-Columbia  
Assistant Professor, Mathematics — 2005 (2006)
- James L. Stichter** — B.A., Augustana College; M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1998  
Secondary School Principal, Price Laboratory School — 2004
- Mary K. Stichter** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1990
- \*William M. Stigliani** — B.A., University of Connecticut; M.A., Ph.D., Princeton University  
Professor, Chemistry and Biochemistry  
Director of Central Energy and Environmental Education — 1994
- \*Jody H. Stone** — B.S., M.A.T., University of Iowa; Ph.D., Southern Illinois University  
Associate Professor of Teaching, Price Laboratory School — 1978 (1988)
- \*John C. Storm** — B.A., M.A., Brigham Young University; Ph.D., Purdue University  
Assistant Professor, Modern Languages — 2005
- \*Laura Hoistad Strauss** — B.A., St. Olaf College; M.S., Ph.D., University of Michigan  
Associate Professor, Chemistry and Biochemistry — 1998 (2003)
- \*Mitchell D. Strauss** — B.A., University of North Carolina; B.S., North Carolina State University; M.S., Institute of Textile Technology-Charlottesville; Ed.D., University of Virginia  
Professor, Design, Textiles, Gerontology, & Family Studies — 1999 (2004)
- \*Tim R. Strauss** — B.S., University of Wisconsin-Madison; M.S., University of London; Ph.D., University of Washington  
Associate Professor, Geography — 1999 (2003)
- \*Christine (Crit) S. Streed** — B.A., University of Northern Iowa; M.A., M.F.A., University of Iowa  
Professor, Art — 1979 (1997)
- Clare A. Struck** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 1983
- \*Yu-Ting Su** — B.M., Eastman School of Music; M.M., The Juilliard School; D.M.A., State University of New York-Stony Brook  
Assistant Professor, School of Music — 2006
- \*Ramanathan Sugumaran** — B.Sc., Madras University, India; M.Sc., Annamalai University, India; Ph.D., Maharaja Sayajirao University, India; Ph.D., University of Edinburgh  
Associate Professor, Geography — 2002 (2005)
- \*David G. Surdam** — B.A., University of Oregon; A.M., Ph.D., University of Chicago  
Assistant Professor, Economics — 2005
- \*Joshua E. Susskind** — B.A., Brandeis University; M.A., Ph.D., University of California-Santa Barbara  
Associate Professor, Psychology — 2000 (2007)
- \*Jesse G. Swan** — B.A., University of Texas-San Antonio; M.A., Ph.D., Arizona State University  
Associate Professor, English — 1998 (2002)
- Michelle H. Swanson** — B.M., M.M., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School and School of Music — 1998

## 2008 Faculty

- \*John W. Swope** — B.A., Virginia Polytechnic Institute and State University; M.S., Radford College; Ed.D., Virginia Polytechnic Institute and State University  
Associate Professor, English — 1987 (1994)
- \*Stephen W. Taft** — B.S.E., Central Missouri State University; M.A., Southwest Missouri State University; Ph.D., Texas Tech University  
Associate Professor, Theatre — 2004
- Jolene K. Tagtow** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 2000
- Denise A. Tallakson** — B.S., Illinois State University; M.Ed., University of Illinois-Urbana  
Instructor of Teaching, Price Laboratory School — 1986  
Instructor, Curriculum and Instruction — 2003
- \*Jeffrey W. Tamplin** — A.B., Augustana College; M.S., Ph.D., Louisiana State University  
Associate Professor, Biology — 2001 (2007)
- Rowena N. Tan** — B.A., Wooster College; Ph.D., University of Minnesota  
Assistant Professor, Psychology — 1994
- \*Laura A. Terlip** — B.S., M.A., Pittsburgh State University; M.S., London School of Economics; Ph.D., University of Oklahoma  
Associate Professor, Communication Studies — 1991
- \*Diane L. Thiessen** — B.S., South Dakota State University; M.S.Ed., Ph.D., Southern Illinois University—Carbondale  
Professor, Mathematics — 1978 (1990)
- \*A. Frank Thompson** — B.S., M.S., Illinois State University; M.S., M.A., Ph.D., University of Nebraska-Lincoln  
Professor, Finance — 1990
- \*Donna J. Thompson** — B.A.Ed., Western Washington University; M.A., Wheaton College; Ph.D., Ohio State University  
Professor, Physical Education — 1975 (1998)  
Director of National Program for Playground Safety — 1995
- \*Carl L. Thurman** — B.S., University of Houston; M.S., University of West Florida; Ph.D., University of Minnesota  
Professor, Biology — 1992 (2006)
- \*Deborah L. Tidwell** — B.A., California State University; M.A., Western State College; Ph.D., University of Arizona  
Associate Professor, Curriculum and Instruction — 1990 (1996)
- Cheryl D. Timion** — B.A., University of Northern Iowa; M.A., Northwestern University  
Instructor of Teaching and Coordinator of Student Teaching — 1993
- M. Jane Toerner** — B.S., University of Cincinnati; M.A., University of Northern Iowa  
Instructor, School of Health, Physical Education, and Leisure Services — 1998
- \*Brian E. Townsend** — B.S., M.S., Pittsburg State University; Ph.D., University of Missouri-Columbia  
Assistant Professor, Mathematics — 2005
- \*Grant A. G. Tracey** — B.A., Trent University, Ontario; M.A., Kansas State University; Ph.D., University of Illinois, Urbana-Champaign  
Associate Professor, English Language and Literature — 1996 (2002)  
Editor, *North American Review* — 2000
- \*Karen K. Tracey** — B.A., M.A., Kansas State University; Ph.D., University of Illinois, Urbana-Champaign  
Associate Professor, English — 1994 (2000)
- \*Julia K. Trahan** — B.M., M.M., Temple University; D.M.A., The University of Georgia  
Associate Professor, School of Music — 2000 (2006)
- \*Rick C. Traw** — B.A., Ottawa University; M.S. Emporia State University; Ed.D., University of South Dakota  
Associate Professor, Curriculum and Instruction — 1991 (1997)
- Vickie Trent** — B.A., M.A.E., Ed.D., University of Northern Iowa  
Assistant Professor, Curriculum and Instruction — 1998 (2002)
- \*Jill M. Uhlenberg** — B.A., M.A.E., M.A.E., University of Northern Iowa; Ph.D., University of Iowa  
Assistant Professor, Curriculum and Instruction — 2000 (2005)  
Interim Head of the Department of Curriculum and Instruction — 2008
- \*Leonard M. Upham** — B.A., Luther College; M.A., University of Iowa; Ed.D., University of Northern Iowa  
Associate Professor, Educational Psychology and Foundations — 1989 (2001)
- \*Bulent Uyar** — B.A., Robert College, Istanbul; M.A., Ph.D., University of Pittsburgh  
Associate Professor, Economics — 1991
- \*Dhirendra K. Vajpeyi** — Siddhantalankar; L.L.B., M.A., M.A., Lucknow University; M.A., Ph.D., Michigan State University  
Professor, Political Science — 1969 (1979)
- \*John F. Vallentine** — B.M.E., Southeast Missouri State University; M.M., University of Northern Iowa; Ph.D., University of Kentucky  
Professor, School of Music — 1991 (2004)  
Director of the School of Music — 1999
- \*Katherine van Wormer** — B.A., University of North Carolina; M.Ed., Queen's University, Ireland; M.A., Western Kentucky University; M.S.S.W., University of Tennessee; Ph.D., University of Georgia  
Professor, Social Work — 1990 (1997)
- Richard M. Vanderwall** — B.F.A., Drake University; M.A., University of Southern Mississippi  
Instructor of Teaching, Price Laboratory School — 1987
- \*Shahram Varzavand** — B.T., M.A., University of Northern Iowa; Ph.D., Iowa State University  
Professor, Industrial Technology — 1987 (2001)
- \*Flavia T. Vernescu** — B.A., University of Bucharest; M.A., Ph.D., University of Illinois-Urbana  
Associate Professor, Modern Languages — 1990 (1997)
- Emily Vold** — B.A., University of Northern Iowa; M.S., University of Northern Colorado  
Instructor, School of Health, Physical Education, and Leisure Services — 2008  
Athletic Trainer for Women's Basketball
- Paul J. Waack** — B.S., University of Dubuque; M.A., University of Iowa  
Instructor, School of Health, Physical Education, and Leisure Services — 1982
- \*Michael D. Waggoner** — B.A., Wheaton College; M.A., University of Toledo; Ph.D., University of Michigan  
Professor, Educational Leadership, Counseling, and Postsecondary Education — 1988 (1997)  
Head of the Department of Educational Leadership, Counseling, and Postsecondary Education — 2007
- Bridgette Wagoner** — B.A., M.A.E., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2000
- \*Jennifer J. Waldron** — B.A., University of St. Thomas; M.Ed., Bowling Green State University; Ph.D., Michigan State University  
Assistant Professor, Physical Education — 2003
- \*David A. Walker** — B.S., Missouri Valley College; M.A., Louisiana State University; Ph.D., University of Wisconsin-Madison  
Professor, History — 1975 (1983)
- \*Eugene Wallingford** — B.A., Ball State University; M.S., Ph.D., Michigan State University  
Associate Professor, Computer Science — 1992 (1998)  
Head of Department of Computer Science — 2005

- \*Linda L. Walsh** — B.S., University of Illinois-Chicago; M.A., Ph.D., University of Chicago  
Associate Professor, Psychology — 1975 (1980)
- \*Michael H. Walter** — B.A., University of California; M.S., Oregon State University; Ph.D., Washington State University  
Associate Professor, Biology — 1997 (2003)
- \*James C. Walters** — B.A., Grand Valley State University, Michigan; M.Phil., Ph.D., Rutgers University  
Professor, Geology — 1975 (1989)  
Head of the Department of Earth Science — 1995
- \*Martha L. Wartick** — B.B.A., Pittsburg State University; M.S., Ph.D., Pennsylvania State University; CPA  
Professor, Accounting — 1998 (2007)  
Head of the Department of Accounting — 2004 (2008)
- \*Steven L. Wartick** — B.B.A., M.P.A., University of Missouri-Kansas City; Ph.D., University of Washington  
Professor, Management — 1998
- \*Robert P. Washut** — B.M., M.M., Arizona State University; D.A., University of Northern Colorado  
Professor, School of Music — 1980 (1994)
- Lee F. Weber** — B.S., M.A., University of South Dakota  
Instructor, Teaching — 1991
- \*Barbara E. Weeg** — B.S., Iowa State University; M.A., University of Iowa; M.A.E., University of Northern Iowa  
Associate Professor and Reference Librarian and Bibliographer — 1981 (1994)
- \*Timothy G. Weih** — B.S., Iowa State University; M.A., Wichita State University; Ph.D., Kansas State University  
Assistant Professor, Curriculum and Instruction — 2002
- \*Carol A. Weisenberger** — B.A., Ohio State University; M.A., Ph.D., Texas A&M University  
Associate Professor, History — 1989 (1995)
- \*Windee M. Weiss** — B.A., M.S., Southern Illinois University; Ph.D., University of Virginia  
Assistant Professor, School of Health, Physical Education, and Leisure Services — 2003
- \*Jeffrey D. Weld** — B.S., M.S., Ph.D., University of Iowa  
Associate Professor, Biology and Science Education — 2000 (2003)
- \*Kay E. Weller** — B.A., Washburn University; M.A., Ph.D., Kansas State University  
Associate Professor, Geography — 1996 (2001)
- \*Charlotte C. Wells** — B.S., University of Wisconsin-River Falls; M.A., Marquette University; Ph.D., Indiana University  
Associate Professor, History — 1993 (1999)
- \*Michael R. White** — B.S., Northern Illinois University; M.A.Ed., University of Georgia; Ph.D., Ohio State University  
Professor, Industrial Technology — 1979
- \*Darrell J. Wiens** — B.A., Bethel College; M.A., University of Kansas; Ph.D., Kansas State University  
Professor, Biology — 1988 (2000)
- \*Siegrun T. Wildner** — B.A., Pädagogische Akademie (Klagenfurt); M.A., University of Northern Iowa; Ph.D., University of Iowa  
Associate Professor, Modern Languages — 1995 (2001)
- \*Jack D. Wilkinson** — B.A., M.A., University of Northern Iowa; Ph.D., Iowa State University  
Professor, Mathematics — 1962 (1975)
- \*John E. Williams** — B.S., Tulane University; M.A., Western Carolina University; Ph.D., University of Mississippi  
Associate Professor, Psychology — 2002 (2007)
- \*Aaron M. Wilson** — B.F.A., Wright State University; M.F.A., Ohio University  
Associate Professor, Art — 1997 (2003)
- \*Barry J. Wilson** — B.A., Immaculate Conception Seminary; M.S., Creighton University; Ph.D., University of Missouri  
Associate Professor, Educational Psychology and Foundations — 1973 (1980)
- \*Joseph L. Wilson** — B.S., Nebraska Wesleyan University; M.A., University of Iowa; Ed.D., Virginia Polytechnic Institute and State University  
Associate Professor, Leisure, Youth and Human Services — 1985 (2003)
- \*Leslie Wilson** — B.S., Iowa State University; M.B.A., University of Northern Iowa; Ph.D., University of Iowa  
Associate Professor, Management — 1985 (1997)  
Associate Dean of College of Business Administration — 2003
- Michael Wilson** — B.A., University of Northern Iowa  
Instructor of Teaching, Price Laboratory School — 2003
- Jayne Witte** — B.A., North Dakota State University; M.A., University of Wisconsin-Madison; Ph.D., University of Nebraska  
Associate Professor, Communication Studies — 1998 (2004)
- Donna J. Wood** — B.A., M.A., Georgia State; Ph.D., Vanderbilt University  
David W. Wilson Chair in Business Ethics  
Professor, Management  
Professor, Philosophy and World Religions — 2002
- \*Anne Woodrick** — B.A., University of Michigan; M.A., Ph.D., University of California-San Diego  
Professor, Anthropology — 1988 (2007)
- \*M. Susan Wurtz** — B.S.Ed., University of Nebraska-Omaha; M.B.A., Indiana State University; Ph.D., University of Nebraska-Lincoln  
Associate Professor, Management — 1985 (1991)
- \*Robert W. Wyatt** — B.A., University of Northern Iowa; Ph.D., University of Iowa  
Associate Professor, Finance — 1980 (1987)
- \*John D. Wynstra** — B.A., University of Wisconsin-Parkside; M.L.I.S., University of Wisconsin-Milwaukee; M.S., University of Northern Iowa  
Associate Professor and Library Information Systems Specialist — 1995 (2007)
- \*Jack B. Yates** — B.A., University of Arkansas; M.A., Ph.D., Johns Hopkins University  
Professor, Psychology — 1975 (1990)
- \*Michele K. Yehieli** — B.A., M.P.H., D.P.H., University of California-Los Angeles  
Professor, School of Health, Physical Education, and Leisure Services — 1995 (2007)  
Executive Director, Project Export Center of Excellence for Health Disparities — 2003
- \*Sonia Yetter** — B.A., Northern Illinois University; M.A., Ph.D., University of Wisconsin-Madison  
Associate Professor, Modern Languages — 1987 (1995)
- Candice York** — B.A., M.A.E., University of Northern Iowa  
Instructor, Teaching — 1997 (2006)  
Director, Child Development Center
- \*Taifa Yu** — B.A., Fu-jen Catholic University; M.A., Brigham Young University; Ph.D., University of South Carolina  
Associate Professor, Political Science — 1988 (1993)
- \*Mir A. Zaman** — B.A., M.B.A., University of Dacca; Ph.D., University of Iowa  
Professor, Finance — 1993 (2000)
- \*Betty S. Zan** — B.S., M.A., Ph.D., University of Houston  
Associate Professor, Curriculum and Instruction — 2000 (2005)  
Research Fellow, Regents' Center for Early Developmental Education — 1994

## 2008 Faculty

**\*Leigh E. Zeitz** — B.A., University of California-Santa Barbara; M.A.E., California State University-Los Angeles; Ph.D., University of Oregon

Associate Professor, Curriculum and Instruction — 1992 (1998)

**\*Catherine L. Zeman** — B.S., M.S., Southern Illinois University; Ph.D., University of Iowa

Associate Professor, School of Health, Physical Education, and Leisure Services — 2000 (2004)

**\*Zhe Julie Zhang** — B.S., Chongqing University, China; M.S., China Agricultural University; Ph.D., Iowa State University

Assistant Professor, Industrial Technology — 2005

**\*Jin Zhu** — B.S., M.S., Southwest Jiaotong University, China; Ph.D., New Jersey Institute of Technology

Assistant Professor, Industrial Technology and Computer Science — 2005

**Elizabeth Zwanziger** — B.A., Luther College; M.A., University of Missouri

Instructor of Teaching, Price Laboratory School — 2003

# Whom to Contact

## Write or Call . . .

Office of Admissions  
1-800-772-2037 or  
319-273-2281

Continuing Education  
and Special Programs  
1-800-772-1746 or  
319-273-2121

Graduate College  
319-273-2748

Financial Aid  
1-800-772-2736 or  
319-273-2700

University Marketing & Public Relations  
319-273-2761

Office of the Registrar  
319-273-2241

[www.uni.edu/regist/students/  
transcripts.shtml](http://www.uni.edu/regist/students/transcripts.shtml)

Department of Residence  
319-273-2333

University Information  
319-273-2311

## Mailing address:

University of Northern Iowa  
Cedar Falls, IA 50614

The University of Northern Iowa does not maintain a permanent mailing list for distribution of this publication. Requests for copies should be addressed to the:

Office of the Registrar  
University of Northern Iowa  
Cedar Falls, Iowa 50614-0006

This University of Northern Iowa publication contains general information regarding fees, curricula, and related policies and procedures. Every effort has been made to make this information accurate as of the date of publication; however, all policies, procedures, fees and charges are subject to change at any time by appropriate action of the faculty, the university administration, or the Board of Regents, State of Iowa.

## For information about . . .

Admission  
Campus visits  
Evaluation of credits  
New student orientation  
Registration  
Transferring  
University literature

Guided Independent  
Study courses  
Extension courses  
Non-credit programs

Graduate programs

Financial assistance

Campus events

Class schedules

Transcripts

Housing

Telephone numbers of  
department offices,  
faculty, staff, and students.



## Whom to Contact

### College/Departmental/Office -- World Wide Web Home Pages/Telephone Numbers

<b>University of Northern Iowa</b>	<b>www.uni.edu</b>	<b>319-273-2311</b>
Academic Advising	www.uni.edu/advising	319-273-3406
Academic Assessment	www.uni.edu/assessment	319-273-2778
Academic Learning Center	www.uni.edu/unialc	319-273-6023
Academic Achievement and Retention Services	www.uni.edu/unialc/aars.html	319-273-6023
Athletics Academic Services	www.uni.edu/unialc/athletics.html	319-273-2361
Examination and Evaluation Services	www.uni.edu/unialc/examinations.html	319-273-6023
Student Support Services	www.uni.edu/unialc/	319-273-2179
Math Center	www.uni.edu/unialc/math.html	319-273-2361
Reading and Learning Center	www.uni.edu/unialc/rindex.html	319-273-2361
Writing Center	www.uni.edu/unialc/	319-273-2361
Accounting	www.cba.uni.edu/accounting	319-273-2394
Admissions		
Graduate	www.grad.uni.edu	319-273-2623
Undergraduate	www.uni.edu/admissions	1-800-772-2037
		or 319-273-2281
International	www.uni.edu/intladm	319-273-6421
Alumni Association	www.unialum.org	319-273-2586
Alumni Relations	www.unialum.org	319-273-2355
Army ROTC	www.uni.edu/rotc	319-273-6178
Art	www.uni.edu/artdept	319-273-2077
Athletic Department, Intercollegiate	www.unipanthers.com	319-273-2470
Biology	www.bio.uni.edu	319-273-2456
Broadcasting Services	www.uni.edu/kuni	319-273-6400
Business Operations, Office of	www.uni.edu/obo	319-273-2164
Camp Adventure	www.uni.edu/campadv	319-273-5960
Career Services	www.uni.edu/careerservices	319-273-6857
Center for Social and Behavioral Research	www.uni.edu/csbr	319-273-2105
Chemistry	www.chem.uni.edu	319-273-2437
College of Business Administration	www.cba.uni.edu	319-273-6240
College of Education	www.uni.edu/coe	319-273-2717
College of Humanities and Fine Arts	www.uni.edu/chfa	319-273-2725
College of Natural Sciences	www.cns.uni.edu	319-273-2585
College of Social and Behavioral Sciences	www.csbs.uni.edu	319-273-2221
Communication Studies	www.uni.edu/comstudy	319-273-2217
Communication Sciences and Disorders	www.uni.edu/comdis	319-273-2217
Compliance and Equity Management, Office of	www.uni.edu/equity	319-273-2846
Computer Science	www.cs.uni.edu	319-273-2618
Continuing Education	www.uni.edu/continuinged	1-800-772-1746
		or 319-273-2121
Cooperative Education	www.uni.edu/careerservices/co-op	319-273-6041
Culture and Intensive English Program	www.uni.edu/ciep	319-273-2182
Curriculum and Instruction	www.uni.edu/coe/ci	319-273-2167
Design, Family and Consumer Sciences	www.uni.edu/dtgfs	319-273-2814
Earth Science	www.earth.uni.edu	319-273-2759
Economics	www.cba.uni.edu/economics	319-273-2412
Educational Leadership, Counseling, and Postsecondary Education	www.uni.edu/coe/elcpe	319-273-2605
Educational Opportunity Programs & Special Community Services (EOP/SCS)		
	www.uni.edu/eop	319-273-6205
Educational Psychology and Foundations	www.uni.edu/coe/epf	319-273-2694
English Language and Literature	www.uni.edu/english	319-273-2821
Environmental Programs	www.envprogs.uni.edu	
Finance	www.cba.uni.edu/finance	319-273-2929
Financial Aid	www.uni.edu/finaid	1-800-772-2736
		or 319-273-2700
Geography	www.uni.edu/geography	319-273-2772
Graduate College	www.grad.uni.edu	319-273-2748
Health, Physical Education and Leisure Services, School of	www.uni.edu/coe/hpels	319-273-2840
History	www.uni.edu/history	319-273-2097
Human Resource Services	www.uni.edu/hrs	319-273-2422

Individual Studies Program .....	<a href="http://www.uni.edu/contined/is">www.uni.edu/contined/is</a> .....	319-273-2504
Industrial Technology .....	<a href="http://www.uni.edu/indtech">www.uni.edu/indtech</a> .....	319-273-2561
Institutional Research .....	<a href="http://www.uni.edu/instrsch">www.uni.edu/instrsch</a> .....	319-273-2984
Instructional Resources and Technology Services .....	<a href="http://www.uni.edu/coe/irts">www.uni.edu/coe/irts</a> .....	319-273-6066
Information Technology Services .....	<a href="http://www.uni.edu/its">www.uni.edu/its</a> .....	
Institutes, Study Abroad .....	<a href="http://www.uni.edu/modlangs/institutes-abroad">www.uni.edu/modlangs/institutes-abroad</a> .....	319-273-2749
International Programs, Office of .....	<a href="http://www.uni.edu/international_programs">www.uni.edu/international_programs</a> .....	
Library, Rod.....	<a href="http://www.library.uni.edu">www.library.uni.edu</a> .....	319-273-2737
Management.....	<a href="http://www.cba.uni.edu/management">www.cba.uni.edu/management</a> .....	319-273-6202
Marketing .....	<a href="http://www.cba.uni.edu/marketing">www.cba.uni.edu/marketing</a> .....	319-273-2955
Mathematics .....	<a href="http://www.math.uni.edu">www.math.uni.edu</a> .....	319-273-2631
Maucker Union .....	<a href="http://www.uni.edu/maucker">www.uni.edu/maucker</a> .....	319-273-2257
Military Science.....	<a href="http://http://fp.uni.edu/rotc">http://fp.uni.edu/rotc</a> .....	319-273-6178
Modern Languages.....	<a href="http://www.uni.edu/modlangs">www.uni.edu/modlangs</a> .....	319-273-2749
Museum .....	<a href="http://www.uni.edu/museum">www.uni.edu/museum</a> .....	319-273-2188
Music .....	<a href="http://www.uni.edu/music">www.uni.edu/music</a> .....	319-273-2024
Northern Iowan .....	<a href="http://www.uni.edu/northia">www.uni.edu/northia</a> .....	319-273-2157
Philosophy and World Religions.....	<a href="http://www.uni.edu/philrel">www.uni.edu/philrel</a> .....	319-273-6221
Physics .....	<a href="http://www.uni.edu/physics">www.uni.edu/physics</a> .....	319-273-2420
Political Science.....	<a href="http://www.uni.edu/polisci">www.uni.edu/polisci</a> .....	319-273-2039
President's Office.....	<a href="http://www.uni.edu/pres">www.uni.edu/pres</a> .....	319-273-2566
Price Laboratory School .....	<a href="http://www.pls.uni.edu">www.pls.uni.edu</a> .....	319-273-6136
Professional Development.....	<a href="http://www.uni.edu/profdev">www.uni.edu/profdev</a> .....	
Psychology .....	<a href="http://www.uni.edu/psych">www.uni.edu/psych</a> .....	319-273-2303
Public Policy .....	<a href="http://www.uni.edu/publicpolicy">www.uni.edu/publicpolicy</a> .....	319-273-2910
Public Safety .....	<a href="http://www.uni.edu/pubsaf">www.uni.edu/pubsaf</a> .....	319-273-2712
Purchasing .....	<a href="http://www.uni.edu/obo/purchasing">www.uni.edu/obo/purchasing</a> .....	319-273-2211
Registrar.....	<a href="http://www.uni.edu/regist">www.uni.edu/regist</a> .....	319-273-2241
Residence .....	<a href="http://www.uni.edu/dor">www.uni.edu/dor</a> .....	319-272-2333
Roy Eblen Speech and Hearing Clinic.....	<a href="http://www.uni.edu/comdis/clinic.html">www.uni.edu/comdis/clinic.html</a> .....	319-273-2542
Scheduling .....	<a href="http://www.uni.edu/regist">www.uni.edu/regist</a> .....	319-273-2110
Science and Science Education Programs .....	<a href="http://www.science-ed.uni.edu">www.science-ed.uni.edu</a> .....	319-273-2918
Social Science .....	<a href="http://www.uni.edu/csbs">www.uni.edu/csbs</a> .....	319-273-2918
Social Work .....	<a href="http://www.uni.edu/socialwork">www.uni.edu/socialwork</a> .....	319-273-6249
Sociology, Anthropology and Criminology .....	<a href="http://www.uni.edu/sac">www.uni.edu/sac</a> .....	319-273-2786
Special Education.....	<a href="http://www.uni.edu/coe/specialed">www.uni.edu/coe/specialed</a> .....	319-273-6061
Student Services, Division of .....	<a href="http://www.uni.edu/stdsvcs">www.uni.edu/stdsvcs</a> .....	319-273-2332
Student Teaching.....	<a href="http://www.uni.edu/stdteach">www.uni.edu/stdteach</a> .....	319-273-2202
Study Abroad.....	<a href="http://www.uni.edu/studyabroad">www.uni.edu/studyabroad</a> .....	
Teaching, Department of.....	<a href="http://www.uni.edu/coe/teaching">www.uni.edu/coe/teaching</a> .....	319-273-2202
Theatre.....	<a href="http://www.uni.edu/theatre">www.uni.edu/theatre</a> .....	319-273-6386
UNI Foundation .....	<a href="http://www.uni-foundation.org">www.uni-foundation.org</a> .....	319-273-6078
.....	..... or 1-800-782-9522	
University Health Services.....	<a href="http://www.uni.edu/health">www.uni.edu/health</a> .....	
Counseling Center .....	<a href="http://www.uni.edu/health/counsel.html">www.uni.edu/health/counsel.html</a> .....	319-273-2676
Disability Services.....	<a href="http://www.uni.edu/health/sds.html">www.uni.edu/health/sds.html</a> .....	319-273-2676
Health Center.....	<a href="http://www.uni.edu/health">www.uni.edu/health</a> .....	319-273-2009
Wellness Promotion .....	<a href="http://www.uni.edu/wellness">www.uni.edu/wellness</a> .....	319-273-6119
University Honors Program .....	<a href="http://www.uni.edu/honors">www.uni.edu/honors</a> .....	319-273-3175
University Marketing & Public Relations .....	<a href="http://www.uni.edu/pubrel">www.uni.edu/pubrel</a> .....	319-273-2761
Vice President and Provost for Academic Affairs, Executive.....	<a href="http://www.uni.edu/vpaa">www.uni.edu/vpaa</a> .....	319-273-2517
Vice President of Administration and Finance.....	<a href="http://www.uni.edu/vpaf">www.uni.edu/vpaf</a> .....	319-273-2383
Vice President for Student Affairs.....	<a href="http://www.uni.edu/vpess">www.uni.edu/vpess</a> .....	319-273-2332
Vice President for University Advancement.....	<a href="http://www.uni.edu/advance">www.uni.edu/advance</a> .....	319-273-2487
Wellness and Recreation Services.....	<a href="http://www.uni.edu/wellrec.html">www.uni.edu/wellrec.html</a> .....	319-273-6275
Women's and Gender Studies .....	<a href="http://www.uni.edu/womenstudies">www.uni.edu/womenstudies</a> .....	319-273-7102

# Index

## A

Absences, 38  
 Abstract of dissertation  
   Filing of, 75, 78  
 Abstract of thesis, 69, 73  
 Academic Advising, Office of, 23  
 Academic Assessment, Office of, 4-5, 37  
 Academic Computing Services  
   (see: Information Technology Services)  
 Academic Department Heads/Directors  
   College of Business Administration, 321  
   College of Education, 322  
   College of Humanities and Fine Arts, 322  
   College of Natural Sciences, 322  
   College of Social and Behavioral Sciences,  
     322-323  
 Academic Ethics Policies, 43-44  
 Academic Load, 37, 66, 75, 78  
 Academic Program Load  
   Graduates, 37, 66, 75, 78  
   Undergraduates, 37  
 Academic Regulations (graduates), 63-65  
   Academic Discipline, 63-64  
   Nonacademic Discipline, 64-65  
 Academic Suspension, 39-40  
 Academic Warning, 39-40  
 Accident and Sickness Insurance, 23-24  
 Accommodations, living, 22-23  
 Accounting, 5  
   Courses, 215-216  
   Major(s) and/or minor(s), 85-87, 158-159  
   Program Certificate, 58, 163-164  
   Staff, 85  
 Accounting, Master of, 86-87  
 Accreditation of the university, 4-5  
 Activities, 24-25, 35-36  
   Art, 35, 36  
   Communication Studies, 35  
   Health, Physical Education and Leisure  
     Services, 35, 36  
   Music, 25, 35, 36, 264-265  
   Theatre, 25, 35, 36  
   Wellness and Recreation, 24, 25  
 Administration, Veterans, 16, 19, 172  
 Administrative Officers, 321  
 Admission Policies and Procedures, 12-15,  
   62-63, 72-73, 74, 76-77, 160, 161, 202  
   Application for, 13-14, 62  
   Conditional (provisional) admission to  
     graduate study, 63, 74, 77  
   Health, 65  
   High School students, 13-14  
   Honors Program, University, 40-41  
   Housing, 22-23  
   Tests and Interviews, 62-63, 68, 72, 74,  
     75, 77  
   Transfer students, 12-13, 66  
   Transcripts, 12-13, 62-63  
 Admissions  
   Candidacy for  
     Doctor of Education degree, 74  
     Doctor of Industrial Technology  
       degree, 76-77  
   Extension class work, 8  
   Graduate students, 12-15, 62-63, 72-73, 74,  
     76-77, 160, 161, 202  
   Honors Program, University, 40-41  
   Initial Admission (Doctor of Education), 74  
   Medical Technology, 48  
   Nursing programs, 47-48  
   High School Preparation Required for  
     Admission, 13-14  
   Program Approval for  
     Master's degree programs, 66  
     Specialist's degree programs, 72

Provisional (graduate), 63, 74, 77  
 Resident and Nonresident Classification,  
   14-15  
   Teacher Education program, 50-53, 208-209  
   Tests, 62-63, 68, 72, 74, 75, 77  
   Transfer students, 12-13, 66  
   Undergraduate students, 12-13  
 Adult education (see: Continuing Education and  
   Special Programs)  
 Advanced Placement Program, 42-43  
 Advancement, University  
   Vice President for, 321  
 Advisor and/or counselor  
   Foreign (International) Student, 24  
   Graduate, 24, 62-63  
   Undergraduate, 23  
 Advising, Academic, 23  
 Advisory Committee, Faculty  
   Doctor of Industrial Technology, 77  
 Air Quality  
   Major and/or minor, 119  
 Alumni Activities, 28  
 Alumni Association, 28  
 American Association of Colleges for Teacher  
   Education (AACTE), 4  
 American Association of State Colleges and  
   Universities (AASCU), 4  
 American College Tests, 12  
 American Ethnic Studies  
   Major and/or minor, 155-156  
 American Studies  
   Major and/or minor, 156  
 Anthropology, 8  
   Courses, 318-320  
   Major(s) and/or minor(s), 203  
   Program Certificate(s), 58, 205  
 Anti-discrimination and Harassment Policy,  
   44-45  
 Application fee (for admission), 12, 17  
 Application for admission to  
   Candidacy for  
     Doctor of Education degree, 74  
     Doctor of Industrial Technology  
       degree, 76-77  
   Graduate study, 12-15, 62-63, 72-73, 74,  
     76-77, 160, 161, 202  
   Honors Program, University, 40-41  
   Program Approval for  
     Master's degrees, 66  
     Specialist's degrees, 72  
   Undergraduate study, 12-13  
 Application for Room in Residence Hall, 22  
 Applied Chemistry and Biochemistry  
   Major and/or minor, 99  
 Applied Credit, 259, 260, 265-267  
 Applied Physics,  
   Major and/or minor, 190-191, 191, 192  
 Army Reserve Officers' Training Corps (ROTC),  
   19-20, 49, 172-173  
 Scholarships, 49  
 Art, 6  
   Courses, 270-273  
   Fine and Performing Arts at UNI, The, 33-36  
     Community Participation and  
       Organizations in the Arts, 36  
     Facilities, 33-34  
     Programs, 34-35  
     Student Participation and  
       Organizations in the Arts,  
       35-36  
   Major(s) and/or minor(s), 87-90  
   Scholarships, 20  
   Staff, 87  
 Art Gallery, 33, 34, 35  
 Articulation Agreement, Regents, 57  
 Assessment of Student Learning, 4-5, 37

Asian Studies  
   Major and/or minor, 156  
 Assistant, Resident, 22  
 Assistant to the President for Board and  
   Governmental Relations, Special, 321  
 Assistantships, graduate and teaching, 65  
 Astronomy  
   Major and/or minor, 121  
 Athletic Scholarships, 20  
 Athletics, Intercollegiate, 24-25  
 Athletic Training  
   Major and/or minor, 137-138  
 Attendance  
   Class, 38  
   Commencement, 76, 79  
 Audio, Video, and Telecommunication Services  
   Area, 30  
 Audit (see also: Visitor), 42  
   Fee, 42  
 Awards and Scholarships, 19-21

## B

Bachelor's degree programs  
   Curricula, 47-55  
   Liberal Arts Core requirements, 55-57  
   Second, 59  
 Bachelor of Arts degree, 47-50  
   Majors and minors, 50  
 Bachelor of Arts -- Teaching Program, 50-53  
   Additional requirements, 51-53  
   Majors and minors, 53  
 Bachelor of Fine Arts degree, 53, 88  
 Portfolio Admission Review Requirement, 88  
 Bachelor of Liberal Studies degree, 54-55  
 Bachelor of Music degree, 54, 183-184  
 Bachelor of Science degree, 54  
 Bands, concert and marching, 25, 54, 265  
 Billing (fees), 17  
 Biochemistry major,  
   Major and/or minor, 96, 97  
 Bioinformatics  
   Major and/or minor, 106  
 Biology, 7  
   Academic Standard Policy, 90-91  
   Courses, 296-299  
   Major(s) and/or minor(s), 91-96  
   Professional Science Master's major(s),  
     95-96  
   Staff, 90  
 Biotechnology  
   Major and/or minor, 93-94  
   Professional Science Master's major, 95-96  
 Board and Room, 17, 22-23  
   Refunds for, 22-23, 37-38  
 Board of Educational Examiners, Iowa, 60  
 Board of Regents, State, 321  
 Books and Supplies, approximate cost and  
   availability, 17  
 Broadcasting Services, 6, 27  
 Business Administration, College of  
   Dean of the College, 321  
   Department Heads, Academic, 321  
   Departments, 5  
   Major(s) and/or minor(s), 85-87, 121-123,  
     133-134, 161, 165-166, 167-169  
   Program Certificates, 58, 122-123, 134,  
     163-164, 167, 168-169  
   Scholarships and Grants, 20  
 Business Administration, Master of, 161  
 Business Communication  
   Major and/or minor, 103, 166-167  
 Business Concepts, General  
   Major and/or minor, 167  
 Business Operations, Office of, 17  
 Business Teaching (see also: Management)

Major and/or minor, 166, 167

## C

Calendar, University, 3  
 Campus, Description of, 4  
 Cancellation of Registration, 37-38  
 Candidacy, Graduate  
   Admission to, 74, 77  
   Requirements for, 74, 77  
 Capstone, Liberal Arts Core  
   Courses, 213-214  
   Liberal Arts Core, 57  
 Career Services, 23  
 Center for Urban Education, 31  
 Certificates, Program, 57-58  
 Certificates, Teaching (see: Licensure,  
   Teaching)  
 Change of Degree Program, 55  
 Change of Registration, 37  
   Fee, 17  
 Cheating, 43-44  
 Chemistry, 7  
   Courses, 299-301  
   Major(s) and/or minor(s), 96-99  
   Professional Science Master=s major, 99  
   Staff, 96  
 Chemistry -- Marketing  
   Major and/or minor, 98, 168  
 Chinese (see: Modern Languages)  
 Choruses, 25  
 Classification of students, 37  
 Clinics (see: Health Service, Speech and  
   Hearing)  
 CNS Scholarships, 20  
 Coaching minor/endorsement, 142  
 Co-curricular activities, 24-25, 35-36  
 College of Natural Sciences Scholarship, 20  
 Colleges and Departments, 5-8  
 College-Level Examination Program (CLEP), 42  
   Fees, 42  
 Combined degree programs (see: Biology,  
   Chemistry and Industrial Technology)  
 Commencement attendance, 76, 79  
 Committees  
   Departmental, 67, 75, 77  
   Student, 25  
   Thesis, 67  
 Common Numbers, 211  
 Common Professional Sequence (see:  
   Professional Education Requirements)  
 Common Regulations and Requirements  
   Master's degree programs, 66-67  
 Commons, The, 26-27  
 Communication Studies, 6  
   Courses, 256-261  
   Enrollment Management Policy, 101-102  
   Fine and Performing Arts at UNI, The,  
     Facilities, 33  
     Programs, 34  
     Student Participation and  
       Organizations in the Arts, 35  
   Major(s) and/or minor(s), 101-105  
   Program Certificate(s), 57, 105  
   Staff, 101  
 Communication graduation requirement, 56, 58  
 Communication  
   Business Communication major and/or  
     minor, 103  
   Communication major and/or minor, 102  
   Communication - Theatre major and/or  
     minor, 102, 104  
   Communication/Electronic Media major  
     and/or minor, 102  
   Communication/Journalism major and/or  
     minor, 104



- Communication/Public Relations major and/or minor, 102-103
- Communication Studies major and/or minor, 104-105
- Political Communication major and/or minor, 103
- Communication Sciences and Disorders, 6
  - Courses, 263-264
  - Major(s) and/or minor(s), 100-101
  - Staff, 99
- Community classes, 8
  - Fee, 17
- Community college partnerships, 10-11, 49
- Comparative Literature
  - Major and/or minor, 129-130
- Competency requirements, 55-56, 58
- Composition-Theory
  - Major and/or minor, 183
- Comprehensive examinations, 68, 72, 78
- Computer Information Systems
  - Major and/or minor, 107
- Computer Science, 7
  - Courses, 292-294
  - Major(s) and/or minor(s), 106-108
  - Program Certificate(s), 57, 108
  - Staff, 106
- Concurrent degrees, 59
- Conduct, Student, 44
- Contents, Table of, 2
- Continuing Education and Special Programs,
  - Division of, 8
  - Dean of, 323
- Continuous Registration, 66, 68
- Controller's Office (see Office of Business Operations and Financial Accounting and Reporting Services)
- Cooperative Education/Internship Program, 41
  - Courses, 211
- Cooperative Nursing -- Medical Technology Programs, 47-48
- Correspondence courses (see Guided Independent Study)
- Costs
  - Board and room, 17
  - Books and supplies, 17
  - Tuition, 17
  - (see also: Fees)
- Council on Teacher Education, 51-53
- Councils
  - Interfraternity, 24
  - Panhellenic, 24
- Counseling, Mental Health
  - Courses, 231-232
  - Major(s) and/or minor(s), 123
- Counseling, School
  - Courses, 231-232
  - Major(s) and/or minor(s), 124
- Counseling Services, 24
  - (see also: Advising, Academic)
- Course Credit Expectation, 38
- Courses
  - Descriptions, 211-320
  - Dropping and adding, 37
  - Guide to Course Numbers, 212
  - Levels, 66, 72, 75, 78
  - Load, 37, 66, 75, 78
  - Numbers common to many departments, 211
- Credit
  - Applied, 259, 260, 265-267
  - By examination, 42, 42-43
  - Community class, 8
  - Credit/No-Credit, 41
  - Evening class, 11
  - Extension class, 8
  - Graduate (for undergraduates), 43, 61-62
  - Guided Independent Study, 8, 68, 72
  - Independent study, 42
  - Loss of, 39
  - Maximum, 58, 59, 66, 74, 77
  - Non-thesis plan, 67-68
  - Open-credit, 41
  - Recency of, 68, 72, 74, 77
  - Residence, 58, 68, 72, 75, 78
  - Research, 68, 72, 79
  - Saturday, evening, and short-term classes, 11
  - Second baccalaureate degree, 59, 62
  - Student teaching, 52, 208-209
  - Study abroad, 9-10
  - Study tours, 9-10, 43
  - Thesis plan, 67
  - Transfer, 12-13, 66, 72, 74, 77
  - Workshops, 8, 43, 68, 72
- Credit by Examination, 42, 42-43
  - Fee, 17
  - Maximum for graduation, 59
- Credit/No-Credit grading, 41
- Criminology
  - Courses, 317-318
  - Major(s) and/or minor(s), 203-204, 205
  - Program Certificate, 205
- Cultural opportunities, 24-25
- Culture and Intensive English Program (CIEP), 9
- Curricula
  - Graduate
    - Doctor of Education program, 73-76, 115-116, 124-125, 138-139, 141, 146, 207-208
    - Doctor of Industrial Technology program, 76-79, 154
    - Master of Accounting program, 66-69, 69, 86-87
    - Master of Arts program, 66-69, 70 (Also see department listings in program requirements)
    - Master of Arts in Education program, 66-69, 70 (Also see department listings in program requirements)
    - Master of Business Administration program, 66-69, 70-71, 161
    - Master of Music program, 66-69, 71, 185-188
    - Master of Public Policy program, 66-69, 71, 161-162
    - Master of Science program, 66-69, 71, 95, 99, 108, 138, 152-154, 162-163
    - Master of Social Work program, 66-69, 71-72, 202
    - Professional Science Master's program, 66-69, 72, 95-96, 99, 171-172, 192
    - Program Certificates, 57-58 (Also see department listings)
    - Second Master's degree program, 69
    - Specialist in Education degree programs, 72-73, 127
  - Liberal Arts Core, 55-57
  - Undergraduate
    - Bachelor of Arts, 47-50
    - Bachelor of Arts -- Teaching program, 50-53
    - Bachelor of Fine Arts, 53
    - Bachelor of Liberal Studies, 54-55
    - Bachelor of Music, 54
    - Bachelor of Science, 54
    - Other programs, 48-49
    - Cooperative/internship programs, 48-49
    - Joint programs, 48
- Pre-professional (or joint) programs, 48
- Program Certificates, 57-58
- Curriculum and Instruction, 5
  - Courses, 223-224, 226-229, 232, 241-242
  - Major(s) and/or minor(s), 108-116
  - Staff, 108
- Cytotechnology (joint program in), 48
- D**
- Dance
  - Major and/or minor, 142-143
- Dean
  - Continuing Education and Special Programs, 323
  - College of Business Administration, 321
  - College of Education, 322
  - College of Humanities and Fine Arts, 322
  - College of Natural Sciences, 322
  - College of Social and Behavioral Sciences, 322
  - Graduate College, 323
- Dean's list, honors, 40
- Declaration of Major, 46
- Degree Audit/Advisement Report, 46
- Degree requirements for
  - Bachelor of Arts, 47-50
  - Bachelor of Arts -- Teaching, 50-53
  - Bachelor of Fine Arts, 53
  - Bachelor of Liberal Studies, 54-55
  - Bachelor of Music, 54
  - Bachelor of Science, 54
  - Change in, 55
  - Concurrent Degrees, 59
  - Doctor of Education, 73-76, 115-116, 124-125, 138-139, 141, 146, 207-208
  - Doctor of Industrial Technology, 76-79, 154
  - Master of Accounting, 66-69, 69, 86-87
  - Master of Arts, 66-69, 70 (Also see department listings in program requirements)
  - Master of Arts in Education, 66-69, 70 (Also see department listings in program requirements)
  - Master of Business Administration, 66-69, 70-71, 161
  - Master of Music, 66-69, 71, 185-188
  - Master of Public Policy, 66-69, 71, 161-162
  - Master of Science, 66-69, 71, 95, 99, 108, 138, 152-154, 162-163
  - Master of Social Work, 66-69, 71-72, 202
  - Professional Science Master's, 66-69, 72, 95-96, 99, 171-172, 192
  - Second Baccalaureate degree, 59, 62
  - Second Master's degree, 69
  - Specialist in Education, 72-73, 127
- Degree Status, 62-63, 76-77
- Department Heads/Directors, Academic
  - College of Business Administration, 321
  - College of Education, 322
  - College of Humanities and Fine Arts, 322
  - College of Natural Sciences, 322
  - College of Social and Behavioral Sciences, 322-323
- Departments, 5-8
  - Courses of instruction, 211-320
- Department of Education, Iowa, 60, 62, 208-209
- Design, Textiles, Gerontology, & Family Studies, 8
  - Courses, 233-235
  - Major(s) and/or minor(s), 116-119
  - Staff, 116
- Digital Imaging Services (see: Information Technology Services)
- Dining Services, 23
- Directed Research, 67, 211
- Discrimination and Harassment, (Anti-) Policy, 44-45
- Dismissal Policy Procedures, Departmental Nonacademic Probation and (graduates), 65
- Dissertation, 75, 79
- Doctor of Education, 73-76, 115-116, 124-125, 138-139, 141, 146, 207-208
  - Academic Load, 75
  - Admission, application for, 74
  - Admission to candidacy, 74
  - Admission, types of, 74
    - Degree status, 74
    - Provisional degree status, 74
  - Application for graduation, 76
  - Areas of Intensive Study, 73
  - Credit, 74
    - Recency, 74
    - Residence, 75
    - Transfer, 74
  - Dissertation, 75
  - Examinations, 74, 75
    - Comprehensive Examination, 75
    - Dissertation Examination, 75
  - General Regulations, 74-75
  - Graduation
    - Application for, 76
    - Attendance at commencement, 76
  - Level of courses, 75
  - Preview, 75
  - Publishing agreement, 75-76
  - Program requirements, 115-116, 124-125, 138-139, 141, 146, 207-208
  - Scholarship requirements, 74
  - Time limitation, 74
- Doctor of Industrial Technology, 76-79, 154
  - Academic load, 78
  - Admission, application for, 76
  - Admission to candidacy, 77
  - Admission, types of, 76-77
    - Degree status, 76-77
    - Provisional degree status, 77
  - Advisory Committee, Faculty, 77
  - Application for graduation, 79
  - Attendance at commencement, 79
  - Credit, 77, 78
    - Master's Degree, 77-78
    - Recency, 77
    - Required for graduation, 79
    - Residence, 78
    - Transfer, 77
  - Department committee, 77
  - Dissertation, 78
  - Examinations, 78
    - Comprehensive, 78
    - Dissertation, 78
    - Graduate Record Examination, 78
  - General Regulations, 77-79
  - Level of courses, 78
  - Professional Career Development Plan (PCDP), 78
  - Program requirements, 154
  - Publication, 78
  - Publishing agreement, 79
  - Research, 78
  - Scholarship requirements, 77
- Dormitories (see: Residence Halls)
- Double major, 59, 62, 69
- Drama
  - Co-curricular activities, 25, 35
  - Courses/programs (see: Theatre)
- Dropping courses, 37-38
- Dual Degree (see: Physics)
- Dual Major (see: Modern Languages)
- Duplication, 39

## Index

### E

- Early Childhood Education
  - Major(s) and/or minor(s), 109, 114
- Earth Science, 7
  - Courses, 301-303
  - Major(s) and/or minor(s), 119-121, 199
  - Staff, 119
- Economics, 5
  - Courses, 307-308
  - Major(s) and/or minor(s), 121-122, 161
  - Program Certificate, 58, 122-123, 163
  - Staff, 121
- Ecosystem Management major, 95-96
- Education, College of, 5-6
  - Dean of the College, 322
  - Department Heads, Academic, 322
  - Departments, 5-6
- Education (doctoral program), 73-76
- Education of the Gifted
  - Major(s) and/or minor(s), 114
- Education, Interdepartmental Courses, 221-222
- Educational Leadership, Counseling and
  - Postsecondary Education, 5
  - Courses, 221, 229-230, 231-232
  - Graduate majors, 123-125
  - Program Certificate(s), 58, 125-126
  - Staff, 123
- Educational Opportunity Grants, 17
  - (see also: Pell Grants)
- Educational Opportunity Programs and Special
  - Community Services, 30-32
  - Department of Military Science, 31
  - Educational Opportunity Center, 30
  - Educational Talent Search Program, 30
  - Ronald E. McNair Postbaccalaureate Achievement Program, 30
  - Student Support Services Program, 31
  - UNI Center for Urban Education (UNI-CUE), 31
  - Upward Bound, Classic, 31
  - Upward Bound Math and Science, 31
- Educational Psychology and Foundations, 5
  - Courses, 222-223, 229
  - Graduate majors, 126-127
  - Staff, 126
- Educational Services, 28-29
  - Academic Learning Center, 28
  - Academic Achievement and Retention Services, 28
  - Athletics Academic Services, 29
  - Examination and Evaluation Services, 29
  - Student Support Services, 29
  - Math Center, 29
  - Reading and Learning Center, 29
  - Writing Center, 29
- Electronic Media
  - Courses, 259-260
  - Major and/or minor, 102
- Elementary Education
  - Courses, 223-224
  - Major(s) and/or minor(s), 109-111, 114-115
- Emeritus Faculty, 324-332
- Employment of students, 17, 65
- Endorsements, 59-60, 62, 114-116
- English Language and Literature, 6
  - Courses, 273-277
  - Major(s) and/or minor(s), 127-132
  - Program Certificate, 132
  - Staff, 127
- English/Modern Language programs, 129, 132, 176-177
- Enrollment and Registration, 16, 37-38
- Environmental Emphasis (see: Chemistry, Earth Science, and Geography)
- Environmental Studies
  - Major and/or minor, 156-157
- Environmental Health
  - Major and/or minor, 163
- Environmental Science
  - Courses, 295-296
  - Major(s) and/or minor(s), 162
- Environmental Technology
  - Major and/or minor, 162
- Ethics
  - Major(s) and/or minor(s), 189
- Ethics, Academic, 43-44
- European Studies
  - Major and/or minor, 147-148, 174
- Evening classes, 11
- Events Coordination, University, 27
- Examination and Evaluation Services, 29
- Examinations and/or Tests
  - Admission, 13-14, 62-63, 68, 72, 74, 75, 77
  - Advance Placement Program, 42-43
  - Candidacy for
    - Doctor of Education degree, 74
    - Doctor of Industrial Technology degree, 77
  - College-Level Examination Program (CLEP), 42
  - Comprehensive, 68, 72, 78
  - Credit, 42, 42-43
  - Departmental, 62
  - Health, or physical, 23-24, 65
  - Transfer, 12-13
  - Writing competency, 42
- Exchange Programs
  - International Scholar Exchange, 9
  - National Student Exchange, 8-9
  - Regents Universities Student Exchange, 9, 10
  - UNI Exchange Universities, 10
- Exhibits, 27, 33
- Expenses (see: Fees)
- Extension
  - Classes, 8
  - Continuing education, 8
  - Fee, 17
  - Guided independent study, 8, 68
  - Publications, 8
- F**
- Facilities and Educational Services
  - Academic Advising, 23
  - Advanced Placement Program, 42-43
  - Alumni Association, 28
  - Art Gallery, UNI, 33, 34, 35
  - Broadcasting Services, 6, 27
  - Career Services, 23
  - Center for Urban Education (UNI-CUE), 31
  - College-Level Examination Program (CLEP), 42
  - Commons, 26-27
  - Continuing Education and Special Programs, 8
  - Educational Opportunity Programs, 30-32
  - Educational Services, 28-29
  - Events Coordination, University, 27
  - Exhibits, 27, 33
  - Foundation, UNI, 21, 28
  - General Studies Program, 8, 157
  - Health Services, University, 23-24
  - Human Performance Center, 26
  - Individual Studies Program, 8, 157-158
  - Information Technology Services, 29-30
  - Instructional Resources and Technology Services, 30
  - International Services office, 24
  - Iowa Lakeside Laboratory, 11, 165
  - Library, University, 26
  - Marshall Center School, 27
  - Maucker Union, 26
  - Museum, University, 27
  - National Student Exchange, 8-9
  - Northern Iowa Alumni Association, 28
  - Price Laboratory School, 6, 32, 208
  - Regents Universities Exchange Program, 10, 11
  - Roy Eblen Speech and Hearing Clinic, The, 32
  - Saturday and Evening Classes, 11
  - Study Abroad, 9-10
  - UNI Child Development Center, 32
  - University Marketing & Public Relations, Office of, 27
  - Vocational Rehabilitation Services, 24
- Facilities, The Fine and Performing Arts (see: Fine and Performing Arts at UNI, The)
- Faculty
  - Emeritus, 324-332
  - Instructional, 333-350
- Faculty Advisory Committee
  - Doctor of Education, 75
  - Doctor of Industrial Technology, 77
- Failed courses, 39
- Family Services
  - Major and/or minor, 116-117
- Family Student Housing, 22
- Family Studies
  - Major and/or minor, 118
- Fee exemption (awards, loans, scholarships), 19-20
- Fees, 17 (also see [www.uni.edu/infosys/tuition](http://www.uni.edu/infosys/tuition))
  - Board and room, 17
  - College-Level Examination, 42
  - Dissertations, 76, 79
  - Doctoral Post-Comprehensive Registration Fee, 75, 78
  - Exemptions, 18-20
  - Financial Aid Office, 17
  - Payment and billing, 17
  - Refunds, 37-38
  - Thesis binding, 69
- Filing of
  - Dissertation, 75, 79
  - Thesis, 69, 73
  - Thesis abstracts, 69, 73
- Finance, 5
  - Courses, 220-221
  - Major(s) and/or minor(s), 133-134
  - Program Certificate, 134
  - Staff, 133
- Financial Aid
  - Army G.I. Bill, 19-20
  - Awards (Athletic, Merit, Science), 20
  - Employment, 17
  - Federal, State and UNI Work Study, 17
  - Graduate Scholarships and Assistantships, 19
  - Grants (Pell, SEOG), 17, 19
  - Grants and Scholarships, 19-20
  - Loans, 17-18
  - Satisfactory Progress, 18-19
- Fine and Performing Arts at UNI, The, 33-36
  - Facilities, 33-34
    - Department of Art, 33
    - Department of Communication Studies, 33
    - Gallagher-Bluedorn Performing Arts Center, 34
    - School of Health, Physical Education, and Leisure Services, 33
    - School of Music, 33
    - Department of Theatre, 33-34
  - Programs, 34-35
    - Department of Art, 34
    - Department of Communication Studies, 34
    - School of Health, Physical Education, and Leisure Services, 34
    - School of Music, 34
    - Department of Theatre, 35-36
    - Gallagher-Bluedorn Performing Arts Center, 35
  - Student Participation and Organizations in the Arts, 35-36
    - Department of Art, 35
    - Department of Communication Studies, 35
    - School of Health, Physical Education, and Leisure Services, 35
    - School of Music, 35
    - Department of Theatre, 35-36
    - Gallagher-Bluedorn Performing Arts Center, 36
  - Community Participation and Organizations in the Arts, 36
    - Department of Art, 36
    - School of Music, 36
    - School of Health, Physical Education, and Leisure Services, 36
    - Department of Theatre, 36
    - Gallagher-Bluedorn Performing Arts Center, 36
- Food Services, 22-23
- Foreign Language Competency Requirement, 58-59
- Foreign Student Program (see: International Programs)
- Foreign studies
  - Major(s) and/or minor(s), 155-156, 173-180
- Forensics (see: Speech and Debate)
- Foundation, UNI, 21, 28
  - UNI Foundation Fund Scholarships, 21
- Fraternities/Sororities, honor and social, 24
- French (see: Modern Languages)
- Fulltime/Parttime Status, 37
- G**
- Gallagher-Bluedorn Performing Arts Center, 34, 35, 36
- Gallery, UNI Art, 33
- General Education (see: Liberal Arts Core)
- General Information, 4-11
- General Studies major, 8, 157
- General Studies major program for
  - Registered Nurses, 47-48
- Geography, 8
  - Courses, 314-315
  - Major(s) and/or minor(s), 134-136
  - Program Certificate(s), 58, 136
  - Staff, 134
- Geology (see: Earth Science)
- German (see: Modern Languages)
- Gerontology
  - Major(s) and/or minor(s), 117-118, 118
- Gifted, Education of, 114
- Government (see: Political Science)
- Governmental Relations, Special Assistant to the President for Board and 321
- Government, Student, 25
- Grad Pact, UNI, 46-47
- Grade Index, 39
- Grade Points
  - Requirements, 39, 39-40, 51, 52, 63, 64, 68, 72, 74, 76, 77
- Graduate College
  - Dean of the College, 323
- Graduate Program
  - Academic Regulations, 63-65
  - Admission to candidacy, 74, 76-77

Admission to study, 12-15, 62-63, 72-73, 74, 76-77, 160, 161, 202

Assistantships, 65

Credit for undergraduate students, 43, 61-62

Licensure and Endorsement, 62

Preview, 68-69, 75

Program Approval, 66-67, 72

Program Certificates, 57-58 (see also: department listings in program requirements pages 80-210)

Second master's degree, 69

Scholarships, 19, 65

Study

- Committees, 67, 75, 77
- Majors for
  - Doctor of Education program, 73-76, 115-116, 124-125, 138-139, 141, 146, 207-208
  - Doctor of Industrial Technology program, 76-79, 154
  - Master of Accounting program, 69, 86-87
  - Master of Arts program, 70 (see also: department listings in program requirements pages 80-210)
  - Master of Arts in Education program, 70 (see also: department listings in program requirements pages 80-210)
  - Master of Business Administration program, 70-71, 161
  - Master of Music program, 71, 185-188
  - Master of Public Policy program, 71, 161-162
  - Master of Science program, 71, 95, 99, 108, 138, 152-154, 162-163
  - Master of Social Work program, 71-72, 202
  - Professional Science Master=s program, 72, 95-96, 99, 171-172, 192
  - Specialist in Education program, 72-73, 127

Graduate Schools in the United States, Council of, 4

Graduation

- Applications for, 59, 69, 73, 76, 79
- Requirements for
  - Bachelor's degrees, 58-59
  - Doctoral degrees, 74-76, 77-79
  - Master's degrees, 67-69
  - Specialist's degree, 72-73
- With honors, 40

Grants and Scholarships, Educational, 19-21 (see also: Financial Aid Office)

Graphic Communications

- Major and/or minor, 152

Grievances, Academic (student), 44

Guide to Course Numbers, 212

Guided Independent Study courses, 8, 68, 72

## H

Halls, Residence, 22

Health Clinic, 23-24

Health Education

- Major and/or minor, 139, 140

Health examinations, 65

Health, Physical Education, and Leisure Services, School of, 5

Activities, 25

Courses

Athletic Training, 250-251

Health Promotion and Education, 245-247

Health, Physical Education, and Leisure Services, Interdepartmental, 253-254

Leisure, Youth and Human Services, 251-253

Physical Education, 247-250

Major(s) and/or minor(s), 136-146

Program Certificates, 58, 141-142, 146-147

Staff, 136

Health Promotion

- Major and/or minor, 139, 140

Health Services, University, 23-24

- Counseling Center, 24
- Office of Disability Services, 24

Health Clinic, 23-24

Wellness and Recreation Services, 24

Hearing Clinic, The Roy Eblen Speech and, 32

History, 8

- Courses, 311-314
- Major(s) and/or minor(s), 147-149
- Program certificate, 58, 149-150
- Staff, 147

Holidays for

- Office personnel, 16
- Students, 3

Home Economics (see: Design, Textiles, Gerontology, & Family Studies)

Honor organizations, 24

Honors, graduating with, 40

Honors Program, University, 40-41

Hospital service, 23-24

Housing

- Apartments, University, 23
- Applications for, 22
- Contracts, 23
- Family, 23
- Fees, 17
- Married Students, 23
- Occupancy regulations, 22
- Off-campus (dining service), 23
- Residence halls, 22
- Units, men's and women's, 22

Human Performance Center, 26

Human Relations

- Courses, 231
- Required for certification, 51

Humanities

- Courses, 280-281
- Liberal Arts Core requirements, 56
- Major and/or minor, 157-158

Humanities and Fine Arts, College of, 6-7

- Dean of the College, 322
- Department Heads, Academic, 322
- Departments, 6
- Program Certificates, 58, 164

## I

I.D. (identification u-Card), 38

Immunization, Measles, 65

Incomplete (unfinished) work, 38-39, 66-67 (see also: Research Continued)

Independent study, 8-9, 42, 157-158, 211

- Individual instruction, 42, 157-158

Individual Studies Program

- Individual study, 8-9, 211
- Major, 157-158
- National Student Exchange, 8-9
- Project, 9
- Readings, 9
- Seminar, 9
- Thesis, 9

Industrial Technology, 7

- Courses, 235-241

Doctor of Industrial Technology degree program, 76-79, 154

Major(s) and/or minor(s), 150-154

Program Certificate(s), 58, 154-155

Staff, 150

Industrial Mathematics major, 171-172

Industrial Technology Tuition Scholarships, 20

Information services, 27

Information Technology Services, 29-30

Initial License, 59-60

Institutes and Workshops, 9-11, 43

Instructional Resources and Technology Services, 30

Instructional Technology

- Courses, 228-229
- Major and/or minor, 112-113
- Program certificate, 116

Instrumental music, 183-184

Insurance, Student Health and Accident, 23-24

Intercollegiate Athletics, 25-26

Interdisciplinary Courses and Programs

- American Ethnic Studies minor, 155-156
- American Studies major, 156
- Asian Studies major and minor, 156
- Environmental Studies minor, 156-157
- General Studies major, 157
- Human Relations courses, 231
- Humanities courses, 280-281
- Humanities major and minor, 157-158
- Individual Studies major, 157-158
- Leadership Studies minor, 158-159
- Master of Business Administration degree, 161
- Master of Public Policy degree, 161-162
- Master of Science,
  - Environmental Science/Technology/Health major, 162-163
- Philanthropy and Nonprofit Development major, 160
- Program certificates, 164-165
- Russian and East European Studies minor, 159
- Women's and Gender Studies major and minor, 159-160, 160-161

Interest organizations, 25

Interior Design

- Major and/or minor, 117

International Affairs

- Major and/or minor, 193-194

International Association for Management Education (AACSB), 5

International Services Director, 24

International Student Program, 9-10, 24

Internet Home Pages, Departmental/Office, 352-354

Internship (see: Cooperative Education/ Internship Program)

Iowa Lakeside Laboratory, 11, 165, 305-307

Iowa Professional License, 59-60

Iowa Space Grant Consortium, 11

Iowa State Department of Education, 60, 62, 208-209

## J

Jazz Pedagogy

- Major and/or minor, 186

Jazz Studies

- Major and/or minor, 183

Joint Programs, 48

Journalism (Communication/Journalism), (also see: Communication Studies)

- Courses, 260
- Major(s) and/or minor(s), 104

Junior High School Education

- (see: Middle Level Education major)

## K

KHKE/KUNI (FM radio station), 6-7, 27

KULT (Campus radio station), 25

Broadcasting courses, 256-259

## L

Laboratory School, Price, 6, 32, 208

Lakeside Laboratory, Iowa, 11, 165

- Courses, 305-307

Languages (see: Modern Languages)

Late enrollment and registration

- Fee, 17

Leadership Foundations

- Program certificate, 164

Leadership Studies

- Major(s) and/or minor(s), 158-159

Learning Strategies, Reading and, 29

Leisure Services (see: Health, Physical Education and Leisure Services, School of)

Leisure, Youth and Human Services

- Courses, 251-253
- Major(s) and/or minor(s), 144-146
- Program Certificates, 146-147

Level of courses, 66, 72, 75, 78

Liberal Arts Core Program, 55-57

- Policies, Administrative, 57
- Requirements for, 55-57

Liberal Arts curricula, 49-50

Liberal Arts programs (see: department listings pages 80-210)

Liberal Studies, Bachelor of, 54-55

Library, The University, 26

Library Science (see: School Library Studies and School Teacher Librarian - Teaching)

Licensure, Teaching, 59, 62

- College recommendation, 59-60
- Endorsements, 59-60, 62, 72-73
- In other states, 62
- Initial, 59-60
- Reinstatement, 60
- Renewal, 60
- Residence, credit and minimum time, 58
- Types, 59-60

Linguistics (see: TESOL/Applied Linguistics)

Literacy Education

- Courses, 226
- Major(s) and/or minor(s), 112, 115

Living accommodations, 22-23

Load, academic, 37, 66, 75, 78

Loan funds, 17-18, 65

Long Term Care (see: Gerontology)

## M

Majors

- Graduate, 61-79 (Also see department listings)
- Second or double, 59, 62, 69
- Undergraduate programs, 49-50, 53-55 (see also: department listings in program requirements pages 80-210)

Make-Up Work and Missed Classes, 38

Making up of incomplete work, 38-39, 66-67

Management, 5

- Courses, 217-220
- Major(s) and/or minor(s), 158, 161, 165-167
- Program Certificates, 58, 163-164, 167
- Staff, 165

Marketing, 5

- Courses, 216-217
- Major(s) and/or minor(s), 158, 161, 167-168
- Program Certificate(s), 58, 163-164, 167, 168-169

## Index

- Staff, 167
- Marks and Grade Points, 39, 39-40, 51, 52, 63, 64, 68, 72, 74, 76, 77
- Married Student Housing (see: University Apartments)
- Master's Degrees Common Regulations and Requirements, 66-67
- Master's degree programs
- Master of Accounting, 69, 86-87
  - Master of Arts, 70 (see also: department listings in program requirements pages 80-210)
  - Master of Arts in Education, 70 (see also: department listings in program requirements pages 80-210)
  - Master of Business Administration, 70-71, 161
  - Master of Music, 71, 185-188
  - Master of Public Policy, 71, 161-162
  - Master of Science, 71, 95, 99, 108, 138, 152-154, 162-163
  - Master of Social Work, 71, 202
  - Professional Science Master=s, 72, 95-96, 99, 171-172, 192
- Mathematics, 7
- Courses, 287-292
- Major(s) and/or minor(s), 169-172
- Professional Science Master=s major, 171-172
- Program Certificate, 172
- Staff, 169
- Maucker Union, 26
- Measles Immunization, 65
- Measurement and Research, Courses in, 229
- Media
- Major(s) and/or minor(s), 112
- Medical Service, 23-24
- Medical Technology, Cooperative Program in, 48
- Medicine, 48
- Meteorology
- Major and/or minor, 121
- Microfilm agreement, 75-76, 79
- Middle Level Education
- Courses, 223-224
  - Major(s) and/or minor(s), 111, 115
- Military Science
- Courses, 214-215
  - Program, 172-173
  - Staff, 172
- Minority group education (see: Educational Opportunity Program)
- Minors, 50, 53
- Modern Languages, 6
- Courses
- Chinese, 281
  - French, 281-283
  - German, 283-284
  - Languages, 281
  - Portuguese, 287
  - Russian, 284-285
  - Spanish, 285-287
- English/Modern Language programs, 129, 132, 176-177
- Major(s) and/or minor(s), 173-180
- Comparative Literature, 177
  - European Studies, 147-148, 174
  - French Studies, 175, 177, 178
  - German, 175-176, 177, 178-179
  - Modern Languages Dual Major, 174-175
  - Portuguese, 177
  - Russian, 176, 178
  - Spanish, 176, 178, 179-180
  - TESOL/Modern Languages, 129, 176-177, 180
- Two Languages, 180
- Program Certificates, 58, 180-181
- Staff, 173
- Movement and Exercise Science,
- Major and/or minor, 142
- Museum, University, 27
- Music, School of, 6
- Activities, 25, 35, 36, 264-265
  - Applied credit, 265-267
  - Courses, 264-270
  - Fine and Performing Arts at UNI, The, 33, 34, 35, 36
  - Community Participation and Organizations in the Arts, 36
  - Facilities, 33
  - Programs, 34
  - Student Participation and Organizations in the Arts, 35
- Major(s) and/or minor(s), 181-188
- Participation credit, 182, 265-267
- Program Certificates, 188
- Special fees, 17
- Staff, 181
- Music, Master of, degree, 185-188
- Music organizations, 25, 35, 36, 265-267
- ## N
- Nanoscience and Nanotechnology
- Major and/or minor, 191-192
- National Direct Student Loan (see: Perkins Loans)
- National Student Exchange, 8-9
- Natural History Interpretation
- Major and/or minor, 94
- Natural Sciences, College of, 7
- Dean of the College, 322
  - Department Heads, Academic, 322
  - Departments, 7
- Networking and System Administration
- Major and/or minor, 106-107
- Non-degree status, 63
- Non-resident Classification, 14-15
- Non-thesis plan, 67-68
- North Central Association of Colleges and Secondary Schools (NCA), 4
- Northern Iowa Student Government, 25
- Northern Iowan, The*, 25
- Notice of intent to register, 16
- Numbering of areas, departments, and courses, 211-212
- Guide to Course Numbers, 212
- Nurses, General Studies major for Registered Nurses, 47-48
- Nursing, Allen College, 48
- ## O
- Objectives, University, 4
- Off-Campus Courses, 8
- Office hours and holidays, 16
- Officers of Administration, 321
- Open credit system, 41
- Orchestra credit, 265
- Organizations, Student, 24-25, 35-36
- Orientation, New Student, 22
- Overloads (see: Credit, Maximum)
- ## P
- Pact, UNI Grad, 46-47
- Panhellenic, 24
- Parent's Association Scholarship Program, UNI, 20
- Pass/No credit (see: Credit/No Credit)
- Pell Grants, 17
- Performing Arts Center, The Gallagher-Bluedorn, 34, 35, 36
- Perkins Loans, 17
- Philanthropy and Nonprofit Development major, 160
- Philosophy and World Religions, 6
- Courses, 277-280
  - Major(s) and/or minor(s), 188-189
  - Program Certificate, 189-190
  - Staff, 188
- Physical Education (see: Health, Physical Education, and Leisure Services, School of)
- Physical examinations, 65
- Physical Therapy, 48
- Physics, 7
- Courses, 303-305
  - Major(s) and/or minor(s), 190-192
  - Professional Science Master=s major, 192
  - Staff, 190
- Piano Performance and Pedagogy,
- Major(s) and/or minor(s), 187-188
- Plagiarism, 43-44
- Plan of Study (POS), 46
- Policies
- Academic Regulations (graduates), 63-65
    - Academic Discipline, 63-64
    - Nonacademic Discipline, 64-65
  - Academic Warning, Probation, and Suspension, 39-40
  - Admission, 12-15, 62-63, 72-73, 74, 76-77, 160, 161, 202
    - Graduate students, 14, 62-63, 72-73, 74, 76-77, 160, 161, 202
    - Residents and Nonresidents, Classification of, 14-15
    - Transfer students, 12-13, 66
    - Undergraduate students, 12-13
  - Advanced Placement Program, 42-43
  - Anti-discrimination and Harassment Policy, 44-45
  - Attendance, 38
  - Auditing Classes, 42
  - Change of Registration, 37
  - College Level Examination Program (CLEP), 42
  - Conduct, Student, 44
  - Cooperative Education/Internship Program, 41
  - Credit by Examination, 42, 42-43
  - Credit/No Credit Grading, 41
  - Dean's List, 40
  - Duplication, 39
  - Enrollment, 16, 37-38
  - Exceptions to Academic Policy, Student Requests for, 37, 43
  - Extension Credit (and Guided Independent Study), 8, 68
  - Failed Courses, 39
  - Fee Payment and Billing, 17
  - Financial Aid Office, 17-20
    - Satisfactory Progress, 18-19
  - Grade Index, 39, 39-40, 51, 52, 63, 64, 68, 72, 74, 76, 77
  - Graduate Credit for Undergraduate Students, 43, 61-62
  - Graduation
    - With Honors, 40
    - Requirements for (undergraduate), 58-59
    - Requirements for (graduates), 67-69, 72-73, 74-76, 77-79
  - Grievances, Academic (student), 44
  - Guided Independent Study/Extension Credit, 8, 68, 72
- Independent Study, 8-9, 42, 157-158, 211
- Liberal Arts Core Program, 55-57
- Make-Up Work and Missed Classes, 38
- Making Up of Incomplete Work, 38-39, 66-67
- Marks and Grade Points, 39, 39-40, 51, 52, 63, 64, 68, 72, 74, 76, 77
- Open Credit System, 41
- Overloads, 58, 59, 66, 74, 77
- Persistence, Student, 44
- Records, Student, 44
- Registration, 16, 37, 65, 65-66
- Regression, 39
- Student Load, 37, 66, 75, 78
- Student Requests for Exceptions to Academic Policy, 37, 43
- Visiting (Auditing) Classes, 42
- Workshops and Study Tours, 8, 9-11, 43, 68, 72
- Writing Competency, 42, 55-56 (see also: Graduate Program)
- Political Communication
- Major(s) and/or minors(s), 103, 192-193
- Political Science, 8
- Courses, 309-311
  - Major(s) and/or minor(s), 192-194
  - Program certificates, 194-195
  - Staff, 192
- Portuguese (see: Modern Languages)
- Post-Baccalaureate, Non-Graduate Study, 62
- Postsecondary Education: Student Affairs
- Courses, 221
  - Major and/or minor, 123-124
- Practicum, 211
- Practitioner Preparation and Licensure, Bureau of, 60
- Preparation for Admission (high school course work), 13-14
- Pre-professional curricula or programs, 48
- President of the University, 321
- Presidential and Provost Scholars, 21
- Pre-Theological Emphasis, 189
- Preview, 68-69, 75
- Price Laboratory School, 6, 32, 208
- Principalship, Elementary or Secondary Majors, 124
- Program certificate, 125
- Principalship, Program Certificate (see: Educational Leadership, Counseling and Postsecondary Education)
- Probation
- Graduate students, 64
  - Transfer students, 12-13, 40
  - Undergraduate students, 40
- Professional cores (graduate), 67-68
- Professional Education Requirements, 51, 109
- Professional Science Master=s majors, 72, 95-96, 99, 171-172, 192
- Professional Sequence, Common (see: Professional Education Requirements)
- Program Approval, Graduate
- Requirements for, 66-67, 72
  - Program Certificates, 57-58 (Also see department listings)
- Programs
- Graduate
    - Doctor of Education, 73-76, 115-116, 124-125, 138-139, 141, 146, 207-208
    - Doctor of Industrial Technology, 76-79, 154
    - Master of Accounting, 69, 86-87
    - Master of Arts, 70 (see also: department listings in program requirements pages 80-210)

- Master of Arts in Education, 70  
(see also: department listings in program requirements pages 80-210)
  - Master of Business Administration, 70-71, 161
  - Master of Music, 71, 185-188
  - Master of Public Policy, 71, 161-162
  - Master of Science, 71, 95, 99, 108, 138, 152-154, 162-163
  - Master of Social Work, 71-72, 202
  - Professional Science Master=s program, 72, 95-96, 99, 171-172, 192
  - Program Certificates, 57-58 (see also: department listings in program requirements pages 80-210)
  - Second Master's, 69
  - Specialist in Education, 72-73, 127
  - Undergraduate
    - Bachelor of Arts (Joint, Liberal Arts, Other, Pre-professional Cooperative), 47-50
    - Bachelor of Arts -- Teaching, 50-53
    - Bachelor of Fine Arts, 53
    - Bachelor of Liberal Studies, 54-55
    - Bachelor of Music, 54
    - Bachelor of Science, 54
    - Individual Studies, 8-9, 157-158, 211
    - Liberal Arts Core, 55-57
    - Program Certificates, 57-58 (see also: department listings in program requirements pages 80-210)
  - Provisional admission (graduate), 63, 74, 77
  - Provisional degree student, 63, 74, 77
  - Provost for Academic Affairs, Associate, 321
  - Provost, Executive Vice President and, 321
  - Psychiatric referral, 23-24
  - Psychology, 8
    - Courses, 242-245
    - Major(s) and/or minor(s), 195-197
    - Program certificate, 197
    - Staff, 195
  - Psychology, Educational, and Foundations, 5
    - Courses, 222-223, 229
    - Majors, 126-127
    - Staff, 126
  - Public Administration
    - Major and/or minor, 193
  - Public Relations
    - Courses, 260-261
    - Major and/or minor, 102-103, 104
  - Publication
    - Doctoral dissertations, 75, 79
  - Publications (see: University Marketing & Public Relations, Office of)
- R**
- Radio-Television (see: Communication)
  - Radio-Television Class Credit, 8
  - Rates, Room and Board, 17
  - Reading (see: Literacy Education)
  - Reading and Learning Strategies, 29
  - Reading, Speaking, and Writing competency requirements, 55-56, 58
  - Readings, 211
  - Readmission, 40
  - Real Estate
    - Major(s) and/or minor(s), 133-134, 134
  - Recency of credit, 68, 72, 74, 77
  - Records, Student, 44
  - Recreation (see: Health, Physical Education and Leisure Services, School of)
  - Recreation Services, Wellness and, 24, 25
  - Refunds, 37-38
  - Regents Articulation Agreement, 57
  - Regents, State Board of, 321
  - Regents Universities Student Exchange Program, 9, 10
  - Registration (see: Enrollment and Registration)
  - Registration Procedure
    - Change of, 17, 37
    - New students, 16
    - Former students, 16
    - Graduate students, 16, 65
    - Notice of intent to register, 16
  - Regression, 39
  - Rehabilitation Services, Division of Vocational, 24
  - Reinstatement of licenses, 60
  - Religion (see: Philosophy and Religion)
  - Religious activities, 25
  - Renewal of licenses, 60
  - Repeating work, 39
  - Requirements for Graduation
    - Bachelor's degree programs, 58-59
    - Doctoral degree programs, 74-76, 77-79
    - Master's degree programs, 67-69
    - Specialist's degree programs, 72-73
  - Research
    - Directed, 67, 211
    - Graduate credit on
      - Doctoral degree programs, 79
      - Master's degree programs, 68
      - Specialist's degree programs, 72
    - Undergraduate credit in many departments, 211
  - Research Continued, 39, 66
  - Reserves Officers' Training Corps (ROTC), 19-20, 49, 172-173
  - Residence credit
    - Graduate programs, 68, 72, 75, 78
    - Undergraduate programs, 58
  - Residence Halls
    - Application for rooms, 22
    - Advance deposits for rooms, 22
    - Contracts, 17, 23, 37-38
    - Deposit refunds, 22-23
    - Men's, 22
    - Occupancy of rooms, 22
    - Rates and payments, 17
    - Resident assistant, 22
    - Women's, 22
  - Residence for married students, 23
  - Resident-Nonresident Classification, 14-15
  - Resident Assistant, 22
  - Restricted enrollment fee, 17
  - Review Committee, 14-15
  - Room and Board
    - Options for, 17
    - Refunds, 22-23, 37-38
  - ROTC, 19-20, 49, 172-173
  - ROTC Scholarships, 19-20, 49, 172-173
  - Roy Eblen Speech and Hearing Clinic, The, 32
  - Russian (see: Modern Languages)
  - Russian and East European Studies
    - Minor, 159
- S**
- Safety Education
    - Courses, 232
  - Saturday, evening, and short-term classes, 11
  - Scholarship requirements on
    - Graduate
      - Doctoral degree programs, 74, 77
      - Master's degree programs, 65, 68
      - Specialist's degree programs, 72
    - Undergraduate, 40, 49, 58
  - Scholarships and awards, 19-21
  - Scholars, Presidential and Provost, 21
  - School of Business (see: College of Business Administration)
  - School Counseling (see: Educational Leadership, Counseling, and Postsecondary Education)
  - School Library Studies
    - Courses, 241-242
    - Major(s) and/or minor(s), 113
  - School Psychology (see: Educational Psychology and Foundations)
  - School Teacher Librarian - Teaching
    - Major(s) and/or minor(s), 112
  - Science and Science Education
    - Courses, 294-295
    - Major(s) and/or minor(s), 197-199
  - Science, Environmental
    - Major(s) and/or minor(s), 162
  - Second Baccalaureate degree, 59
  - Second Master's degree, 69
  - Secondary School Teaching
    - Major(s) and/or minor(s), 50
  - Secretarial (see: Management)
  - Semesters, organized by, 16
  - Seminar, 211
  - Senate, Student, 25
  - Services, Educational (and Facilities)
    - Academic Advising, 23
    - Advanced Placement Program, 42-43
    - Alumni Association, 28
    - Art Gallery, UNI, 33, 34, 35
    - Broadcasting Services, 6, 27
    - Career Services, 23
    - Center for Urban Education (UNI-CUE), 31
    - College-Level Examination Program (CLEP), 42
    - Commons, 26-27
    - Continuing Education and Special Programs, 8
    - Educational Opportunity Programs, 30-32
    - Educational Services, 28-29
    - Events Coordination, University, 27
    - Exhibits, 27, 33
    - Foundation, UNI, 21, 28
    - General Studies Program, 8, 157
    - Health Services, University, 23-24
    - Human Performance Center, 26
    - Individual Studies Program, 8, 157-158
    - Information Technology Services, 29-30
    - Instructional Resources and Technology Services, 30
    - International Services Offices, 24
    - Iowa Lakeside Laboratory, 11, 165
    - Library, University, 26
    - Marshall Center School, 27
    - Maucker Union, 26
    - Museum, University, 27
    - National Student Exchange, 8-9
    - Northern Iowa Alumni Association, 28
    - Price Laboratory School, 6, 32, 208
    - Regents Universities Exchange Program, 10, 11
    - Roy Eblen Speech and Hearing Clinic, The, 32
    - Saturday and Evening Classes, 11
    - Study Abroad, 9-10
    - UNI Child Development Center, 32
    - University Marketing & Public Relations, Office of, 27
    - Vocational Rehabilitation Services, 24
  - Social and Behavioral Sciences, College of, 8
  - Dean of the College, 322
  - Department Heads, Academic, 322-323
  - Departments, 8
  - Program Certificates, 58, 164-165
  - Social Foundations, Courses in, 229
  - Social Life, 25
  - Social organizations, 24-25
  - Social Science
    - Courses, 307
    - Major(s) and/or minor(s), 199-201
  - Social Work, 8
    - Courses, 254-256
    - Major(s) and/or minor(s), 201-202
    - Program Certificates, 58, 203
    - Staff, 201
  - Social Work, Master of, 202
  - Sociology, Anthropology and Criminology, 8
    - Courses, 315-320
    - Major(s) and/or minor(s), 203-205
    - Program Certificates, 58, 205
    - Staff, 203
  - Sororities, honor and social, 25
  - Spanish (see: Modern Languages)
  - Speaking, Reading, and Writing competency requirements, 55-56, 58
  - Special area studies, 155-160
  - Special Assistant to the President for Board and Governmental Relations, 321
  - Special Education, 5
    - Courses, 224-226
    - Major(s) and/or minor(s), 205-208
    - Staff, 205
  - Specialist in Education degree programs, 72-73, 127
  - Speech (see: Communication Studies)
  - Speech and Debate, 24
  - Speech and Hearing Clinic, The Roy Eblen, 32
  - Speech-Language Pathology and Audiology (see: Communication Sciences and Disorders)
  - Stafford Loan, 17-18
  - State of Iowa Board of Regents, 321
  - Establishment of scholarships, 19-21
  - Fees subject to change, 17
  - Governs, 4
  - Membership, 321
  - State Department of Education, 60, 62, 208-209
  - Statement of Further Work (see: Degree Audit/Advisement Report)
  - Student Affairs, Division of, 22
  - Vice President for, 321
  - Student conduct, 44
  - Student costs, 17
  - Student fees (see: Fees)
  - Student Field Experience, 6, 208-209
    - Courses, 231
    - Staff, 208
    - Student teaching, 208-209
  - Student Government, 25
  - Student Housing, 22-23
    - Accommodations for family housing, 23
  - Student Load, 37, 66, 75, 78
  - Student loan funds, 17-18, 65
  - Student newspapers, 25
  - Student organizations, 24-25, 35-36
  - Student orientation, 22
  - Student Persistence, 44
  - Student Publications, 25
  - Student Records, 44
  - Student Requests for Exceptions to Academic Policy, 37, 43
  - Student Rights and Responsibilities, 43-44
  - Student Senate, 25
  - Student Services
    - Academic Advising, 23
    - Career Services, 23
    - Cooperative Education/Internship Program, 41, 211
    - Educational Services, 28-29
    - Orientation, 22

## Index

Roy Eblen Speech and Hearing Clinic, The, 32  
University Health Services, 23-24  
    Counseling Center, 24  
    Office of Disability Services, 24  
    Health Clinic, 23-24  
    Wellness and Recreation Services, 24  
Student Services programs, 22-25  
Student Teaching  
    Aim, 208-209  
    Application, 50-53, 208-209  
    Approval, 50-53  
    Areas, 50-53  
    Credit, 59  
    Directed Experience, 50-53  
    Double majors, 59  
    Licensure requirements, 59-60  
    Limitations in the amount, 59-60, 208-209  
    Prerequisites, 52, 208-209  
    Scholarship requirement, 58  
    Time-spent (block of time), 50-53  
    Transfer credit, 12-13, 60  
Study Abroad, 9-11, 43  
Study Tours, 9-11, 43  
Subject fields (Guide to Course Numbers), 212  
Summer sessions, 16  
Supplies and books, approximate cost of, 17  
Suspension, readmission, and probation, 39-40, 63-64

## T

Table of Contents, 2  
Teacher Education and Licensure, Bureau of, 60  
Teacher Education Coordinating Council, (see: Council on Teacher Education)  
Teacher of Students with Visual Impairments, Major and/or minor, 207  
Teaching, 6, 208-209  
    Price Laboratory School, 6, 32, 208  
    Staff, 208  
Teaching assistantships, 65  
Teaching English to Speakers of Other Languages (TESOL)  
    Major(s) and/or minor(s), 128-129, 130  
Teaching Licensure, 59, 62  
Teaching Program  
    Additional requirements, 50-53  
    Approval, 50-53  
    Directed Experience, 50-53  
    Student teaching, 50-53, 208-209  
Technology Education and Training  
    Major(s) and/or minor(s), 151  
Technology, Instructional  
    Major(s) and/or minor(s), 112-113  
Technology, Environmental  
    Major(s) and/or minor(s), 162  
Technology, Industrial, 7  
    Courses, 235-241  
    Doctor of Industrial Technology, 76-79, 154  
    Major(s) and/or minor(s), 150-154  
    Program Certificate, 58, 154-155  
    Staff, 150  
Technology Management  
    Major and/or minor, 151-152, 152  
Telecourses, 8  
Television Services (see: Radio and Television)  
TESOL (Teaching English to Speakers of Other Languages)  
    Major(s) and/or minor(s), 128-129, 130  
TESOL/Applied Linguistics  
    Courses, 277  
TESOL/Modern Language  
    Major(s) and/or minor(s), 129, 176-177, 180

Tests (see: Examinations)  
Tests and Measurements, courses in, 229  
Textbooks and supplies, 17  
Textile and Apparel (TAPP)  
    Major(s) and/or minor(s), 117, 119  
Theatre  
    Courses, 261-263  
    Fine and Performing Arts at UNI, The, 33-34, 35-36, 36  
    Community Participation and Organizations in the Arts, 36  
    Facilities, 33-34  
    Programs, 35-36  
    Student Participation and Organizations in the Arts, 35-36  
    Major(s) and/or minor(s), 209-210  
    Staff, 209  
Theological (Pre-) Emphasis, 189  
Thesis  
    Abstract, 69, 73  
    Binding fee, 69  
    Filing of, 69, 73  
    Selection of, 68, 72  
Thesis and non-thesis plans, graduation requirements for, 67-68, 72  
Tourism  
    Program Certificate, 147  
Tours, campus, 22  
Tours, Foreign Study, 9-11, 43  
Transcript of credits  
    Fees, 17  
    Filing, 13  
    Graduate students, 62-63  
    High school for admission, 12  
    Transfer students, 12-13  
Transfer credit, 12-13  
Transfer students, 12-13  
    Probation, 13  
Tuition (see: Fees)  
Two Languages  
    Major and/or minor, 180

## U

Unconditional admission, graduate, 63  
Undergraduate  
    Awards and scholarships, 19-21  
    Curricula, 47-55  
    Program Certificates, 57-58 (see also: department listings in Program requirements pages 80-210)  
Unfinished (incomplete) work, 38-39, 66-67 (see also: Incomplete (unfinished) work; Research Continued)  
Union, Maucker, 26  
Union Advisory Board, 25  
UNI Child Development Center, 32  
UNI Student Association, (see also: Northern Iowa Student Government), 25  
University Advancement, Vice President of, 321  
University Apartments, 23  
University Calendar, 3  
University Events Coordination, 27  
University Foundation, The, 21, 28  
University Health Services, 23-24  
    Counseling Center, 24  
    Office of Disability Services, 24  
    Health Clinic, 23-24  
    Wellness and Recreation Services, 24  
University, Interdisciplinary, 155-165  
University, Its Programs, 4-11  
University Marketing & Public Relations, Office of, 27  
University office holidays, 16  
University Union (J.W. Maucker), 26

Upward Bound, Classic, 31  
Upward Bound Math and Science, 31  
Urban Education, Center for (UNI-CUE), 31

## V

Veterans  
    Administration program for, 16  
    Residents, Iowa, 14-15  
Vice President and Provost, Executive, 321  
Vice President for Administration and Finance, 321  
Vice President for Student Affairs, 321  
Vice President for University Advancement, 321  
Visiting days, 22  
Visitor (visiting classes), 42 (see: Audit)  
Vocal music, 25, 182, 183, 264-265, 265  
Vocational Rehabilitation Services, Division of, 24

## W

Waiver of regulations (graduate), 66  
Wellness and Recreation Services, 24  
Withdrawal from a course (change of registration), 37  
Withdrawal from the university  
    Procedure, 37-38  
    Refunds, 37-38  
Women's and Gender Studies  
    Major and/or minor, 159, 160-161  
Work (see: Employment)  
Workloads, student  
    Undergraduate, 37  
    Graduate, 37, 66, 75, 78  
Workshops, 8, 43, 68, 72  
Work-Study Program, 17  
World Wide Web Home Pages, Departmental/Office, 352-354  
Writing  
    Major(s) and/or minor(s), 130  
Writing Competency  
    Liberal Arts Core requirement, 55-56  
    Requirement for graduation, 42, 55-56  
Writing, Reading, and Speaking competency requirements, 55-56, 58

## Y

Youth/Human Services Administration, Leisure Services, (see: Health, Physical Education and Leisure Services, School of and also Leisure Services-Youth/Human Services Administration)  
Youth Services Administration  
    Major(s) and/or minor(s), 145