

1983

## Start College Early at Iowa - SSTP

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## **Lantz Summer Awards For Graduate Study**

The College of Natural Sciences of the University of Northern Iowa announces the availability of financial awards to pay tuition costs of graduate study during Summer Session 1983 in the fields of Biology, Chemistry, Earth Science, Physics, Science, and Science Education. To be eligible students must have been admitted to graduate study with degree status. Awards will be made on the basis of scholarship and potential for success in graduate study. Awardees must carry a program of between five and eight credit hours during the Summer Session. It is expected that about four awards will be made. The deadline for application is May 2, 1983. Awards will be announced on May 16, 1983. Further information and application forms may be obtained from science departments or from:

Clifford G. McCollum, Dean  
College of Natural Sciences  
University of Northern Iowa  
Cedar Falls, Iowa 50614  
(319) 273-2585

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### **Start College Early at Iowa — SSTP**

Each summer over 250 high school students from states coast-to-coast participate in programs offered by The University of Iowa Secondary Student Training Program (SSTP). A very high percentage of these students are traditionally native Iowans.

Students have the choice of studying in any of three major program categories: Environmental, Research, and Course Centered. All of the programs give students the opportunity to earn university credit. These programs are open to students who have completed the tenth grade; have at least a "B" average; and who have demonstrated high ability and motivation in science, social science and/or mathematics.

The Environmental Programs utilize such geographical locations as Yellowstone National Park, the Colorado Rockies, the Northwoods Boundary Waters, and Alaska as "living laboratories" where students carry-out field investigations in biology, ecology, geology, and conservation practices. When appropriate, hiking, backpacking, and canoeing are made integral aspects of each camp-study program in order to facilitate observations and investigations in the "back country."

The Research Participation Program provides first-hand experience in laboratories under the guidance of research scientists. Over eighty students are placed in the Colleges of Engineering, Pharmacy, Medi-

cine and Dentistry; and the Departments of Radiation Research, Chemistry, Zoology, Botany, Geology, Astronomy, Physiology, Psychology, Microbiology, Anatomy, Pharmacology, Biochemistry, Computer Science, Anthropology, and Geography. The program helps stimulate superior students by familiarizing them with the daily activities of the scientists. Research participants, by working in a research laboratory approximately 40 hours a week for either six or eight weeks, can better verify or alter supposed interests in scientific careers in research. A \$300 Cancer Research Scholarship award from the American Cancer Society—Iowa Division is available to eligible Iowa participants.

The Course Centered Programs are designed to provide in-depth and enriching experiences in the areas of **Physics, Molecular Biology or Computer Science**. Each four week experience combines a classroom and laboratory environment towards providing a unique program of study for students.

In addition to the extended research and course centered opportunities, a special two week **Creative Problem Solving/Career Exploration** short course provides students the opportunity to develop a research proposal, participate in on-site laboratory visits, learn basic computer skills and interact with research scientists. The course is scheduled so that students interested in any of the Course Centered Programs may supplement their studies by attending the short-course the two weeks prior to their four week program.

For more information, write: Iowa-SSTP, The University of Iowa, 455 Van Allen Hall, Iowa City, IA 52242; or call toll-free within Iowa, 1-800-272-6412, ext. 4102.

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### **Biological Illustration Book**

*Biological Illustration: Techniques and Exercises*, just published by the Iowa State University Press, offers a series of introductory exercises designed to develop and increase competency with a pen and ink in biological illustrations.

It is written by John C. Downey and James L. Kelly, both of the University of Northern Iowa, and is illustrated by their students in a beginning class. It is designed to meet the needs of high school, junior college, college and independent illustrators.

Downey and Kelly have designed their book to acquaint students with some of the common techniques of rendering and the materials used in illustration. Tips at the end of each section offer down-to-earth suggestions on such topics as the care of pen points, ink and corrections, and cleanliness.