University of Northern Iowa

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University of Northern Iowa Graduate College Curriculum Committee Minutes, November 12, 2021

University of Northern Iowa. Graduate College Curriculum Committee.

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Present: M. Bunker, C. Christopher, M. Conrad, S. Coon, H. Gallivan, S. Goss, D. Grant, R. Kidwell, R. McNeal, S. Moore, C. Nielsen, G. Olivares, A. Schmiesing

Absent: D. Marchesani

Guest: L. Riedle

The meeting was called to order by Chair Olivares at 3:00 p.m. via Zoom

I.   Welcome

Chair Olivares welcomed committee members.

II.   CHAS Curriculum Review (Regular Agenda Items)

S. Coon moved to approve the Department of Technology curriculum packet.   D. Grant seconded.

A. Department of Technology

Agenda Items – Courses
- TECH 6420 Systems Engineering Architecture
- TECH 6400 Introduction to Applied Systems Engineering Management
- TECH 6440 SMART Industrial Development – Systems Simulation
- TECH 6460 Life Cycle Applications
- TECH 6500 Systems Engineering Management Capstone Project

Agenda Items – Programs
- Technology MS – adding new emphasis (Applied Systems Engineering Management)
- Applied Systems Engineering Management – adding new certificate

L. Riedle explained the Department of Technology created a new emphasis in the master program with a certificate that matches the emphasis. The department has been working with a John Deere expert for 18 months to help get this program off the ground. MIT and Caltech are the only two schools currently offering this program. John Deere would like the program to be offered closer to home. This will be a cohort program, so students in the cohort can discuss content that is specific to their workplaces in relation to the course topics.

The first introduction course TECH 6400 will be offered before getting into the different elements. The last course taken in the program will be TECH 6500. The courses do not affect any other programs. This program will be taught as a hybrid mode. The department does want some face-to-face time. This matches how MIT and Caltech are offering the program.

The self-standing certificates will attract students. Chair Olivares said the certificate could be rolled into the Masters of Technology program.

S. Moore asked if there may be a semester when there is not a cohort and one of these new courses is not offered. L. Riedle said that may happen but they plan on running cohorts one after another. Chair Olivares asked about the company supporting the students. L. Riedle explained the industry is paying for the courses so they will be supportive. S. Coon asked how the courses will be offered. L. Riedle said they are 8-week courses. Two 8-week courses will be offered during one semester. This is not offered at an undergraduate level, as students need the industry experience.

D. Grant questioned if the requirement of a BA in Engineering or Technology, for the MS Technology program, will shut out possible students. L. Riedle explained students need some experience in those areas. The experience level would also be looked at depending on the student's background. D. Grant said the pre-requisite requirement may want to be changed to a recommendation. We may want to be more upfront. L. Riedle said that decision will have to be discussed with the graduate committee.

Chair Olivares said there may need to be clarification for admissions criteria in the catalog. S. Coon suggested a note on the application for the certificate could read "permission of Technology department required". R. Kidwell asked if they wanted to add any pre-requisites to the courses. She suggested "consent of Technology department" pre-requisite could be added to TECH 6400. L. Riedle agreed. R. Kidwell shared that non-degree students can add the certificate to their advisement report, they would have to let us know when the requirements are completed. A certificate would then be printed for the student.

Chair Olivares motioned to vote to approve the Department of Technology curriculum packet. The motion passed unanimously.

Meeting adjourned at 3:30 pm.

Respectfully submitted,

April Schmiesing
Office of the Registrar

cc: UCC
        GCCC
        Guests
        Record Analysts