Graduate Council Curriculum Report

The Graduate Council Curriculum Report (GCCR), which includes all graduate curricular proposals approved through the Graduate Council curricular review process, is published 12 times each calendar year.

Questions/comments regarding the GCCR or its contents may be directed to the Director of Graduate Education Administration.

September 6, 2017

Graduate Degree Programs

CHANGE

None

Graduate Courses

ADD

EMGT 894
Capstone Experience
CAPSTONE EXPERIENCE (1-18/Repeatable Max: 18)
Supervised, professionally oriented student activities that constitute the culminating experience for the program.
PREREQUISITES: STAT 500, MANGT 510, LEAD 555; OLEAD 409; OLEAD 410; OLEAD 411, OLEAD 464, OLEAD 465; CAS 404, GEOG 482, EMGT 810
CONCURRENTS: EMGT 820, EMGT 830
APPROVED START: FA2018

CHANGE

OLD
CE 535
Integrated Project Management for Civil Engineers
INTEG PROJ MGMT (3)
This course will present the project management process to students pursuing a graduate degree in Civil Engineering. The course will utilize a project/group based learning process to teach project management's value, methodology and application to civil and environmental engineering projects in the student's particular emphasis area (Infrastructure, Transportation Systems, or Water and Environment). Students will learn how to initiate, plan, organize, staff, direct, control and closeout a project. Key topics to be discussed include: the role of the project manager, civil engineering project procurement/proposal development, importance and skills of communications, project team development and leadership, team conflict resolution, design management, scope management, work
breakdown structure (WBS), scheduling/time management, budgeting/cost management, risk management, resource management, crisis management, earned value, project evaluation and control, and project closeout and termination. Students will be evaluated on their comprehension of the course through homework, exams and/or quizzes, class participation and successful completion of a team-based project. The team-based projects will be specific to the student’s engineering emphasis and may be developed by the instructor or student selected from previous project experience. This course will be required by all MEng students in Civil Engineering in the second semester of their degree program and serve as a culminating experience for their emphasis area courses. This course will be invaluable to those students who have or will pursue careers in professional practice or industry. The course will be offered every Spring Semester and approximately 30 - 40 students are expected to enroll.

APPROVED START: SU2015

NEW
CE 835
Integrated Project Management for Civil Engineers
INTEG PROJ MGMT (3)
This course will present the project management process to students pursuing a graduate degree in Civil Engineering. The course will utilize a project/group-based learning process to teach project management’s value, methodology, and application to civil and environmental engineering projects in the student’s particular emphasis area (Infrastructure, Transportation Systems, or Water and Environment). Students will learn how to initiate, plan, organize, staff, direct, control, and closeout a project. Key topics to be discussed include: the role of the project manager, civil engineering project procurement/proposal development, importance and skills of communications, project team development and leadership, team conflict resolution, design management, scope management, work breakdown structure (WBS), scheduling/time management, budgeting/cost management, risk management, resource management, crisis management, earned value, project evaluation and control, and project closeout and termination.

PROPOSED START: SP2018