CIVIL ENGINEERING
TECHNICAL ELECTIVE COURSES

The Civil Engineering program requirements for catalogs 2010 and earlier allows for 3 hours of technical elective credit. For all catalogs, additional technical elective hours may be needed to satisfy EGN 1006C/1007C for transfer students or hour differentials for transfers or those migrating from earlier catalogs to the 2011 catalog requirements. Technical Elective hours may be fulfilled using any of the following courses or other courses that have been approved by the Civil, Environmental, and Construction Engineering Department. Please be aware that some of these courses may have additional pre-requisite requirements.

2010 and earlier Catalogs may use CES 4605 (Steel Structures) or CES 4702 (Reinforced Concrete) whichever was not taken as required as a technical elective.

All catalogs may choose from the following. Other courses not listed may also be approved.

Civil, Environmental, & Construction Engineering Department Courses:

- CCE 4004 3 Construction Methods
- CCE 4034 3 Construction Estimating and Scheduling
- CCE 4402 3 Construction Equipment and Productivity
- CCE 4813 4 Mechanical and Electrical Systems for Buildings
- EES 4111C 3 Biological Process Control
- EES 4202C 4 Chemical Process Control
- ENV 4120 3 Air Pollution Control
- ENV 4341 3 Solid and Hazardous Waste Management

Additionally the fourth option not selected as required from the depth courses may be used as well as the other five options not selected as required from the design courses for the Civil major. 5000 level courses may also be used with the permission of the CECE Department Advisor. It should be noted that these courses if used to satisfy undergraduate degree requirements may not be used to satisfy graduate degree requirements.

Courses from outside the CECE Department may be used as well, the following is a list of some of those courses. Other courses must be submitted to the CECE Department Advisor for consideration in writing.

- CHM 2210 3 Organic Chemistry I
- CHM 2211 3 Organic Chemistry II (may also include lab)
- CHM 3410 4 Physical Chemistry I
- CHM 3411 3 Physical Chemistry II (may also include lab)
- CHS 4200 3 Concepts of Industrial Chemistry
- CHS 4615 3 Environmental Chemistry
- COP 3223 3 Introduction to Programming with C
- EGN 3420 3 Engineering Analysis
- MAP 4153 3 Vector and Tensor Analysis
- MAS 3105 4 Matrix and Linear Algebra
Students choosing to Study Abroad or in pursuit of the International Engineering Minor may also find their technical electives satisfied by coursework at the foreign institution. Each of those courses must be presented and petitioned before the student travels.