
Technical Writing Requirement

Technical Writing is required and one of two courses is satisfactory.

- a. ENGL 3980-Special Topics in Composition (Technical Writing). Prerequisite: ENGL 1160.
- b. ENGR 3000 – Creativity and Writing for Engineers. Prerequisite: ENGL 1160.

Design Electives Requirement

At least nine credits of design electives must be taken from two of the sub-disciplines listed below.

Environmental Engineering

- CIVE 425 – Environmental Engin Process Design (3)
- CIVE 426 – Design of Water Treatment Facilities (3)
- CIVE 427 – Design of Wastewater Treatment and Disposal Facilities (3)

Transportation Engineering

- CIVE 460 – Highway Design (3)
- CIVE 464 – Traffic Control System Design (3)

Structures

- CIVE 440 – Reinforced Concrete Design (3)
- CIVE 441 – Steel Design I (3)

Water Resources

- CIVE 419 – Flow Systems Design (3)
- CIVE 452 – Water Resources Development (3)

Geotechnical Engineering

- CIVE 436 – Foundation Engineering (4)

Technical Electives Requirement

All Civil Engineering students must take at least twelve credits of technical electives. Technical electives will be selected by the student in consultation with his/her advisor to formulate a coherent program in civil engineering. At least six credits for technical electives must be 400 level Civil Engineering courses not taken to fulfill another degree requirement for Civil Engineering. Up to six credits of technical electives can be taken from MENG 2000 Thermodynamics, ELEC 2110 Elements of Electrical Engineering, ISMG 2060 Engineering Economy I or any approved course in science, mathematics, or other engineering areas approved by the department. Courses outside of civil engineering that are currently approved by the department include but are not limited to the following courses:

- MATH2030 Discrete Mathematics
- MATH3300 Numerical Analysis
- MATH4330 Intro to Partial Diff. Equations
- PHYS2130 General Physics III
- PHYS3010 Electrical and Electronic Circuits I
- GEOL1170 Physical Geology

- GEOL2600 Groundwater Geology
 - BIOL1020 General Biology
 - GEOG3510 Meteorology
 - CET3190 Construction Equipment and Methods
 - CET3330 Planning and Scheduling
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