Civil Engineering

The Department of Civil Engineering offers a Master of Civil Engineering (MCE) which includes graduate-level instruction and research programs. The objective of this program is to provide qualified students the opportunity for advanced training and specialization, and to enable them to gain experience in conducting engineering research and in the interpretation and communication of their findings. Currently, programs in environmental engineering, structural engineering and geotechnical engineering are available through distance education.

All applicants must have earned a bachelor’s degree in civil engineering (B.C.E., B.S. or B.S.C.E.) or a closely related area from an institution of recognized standing and must have completed such formal training as to warrant advanced study in the major and minor fields. There is no formal foreign language requirement.

Requirements for the Master of Civil Engineering are a minimum of 30 semester hours of graduate level courses, which may include three semester hours of CIVL 7986.

Requirements for M.C.E. Program

- All applicants must submit GRE scores for the General Test and TOEFL scores for international applicants
- There is no residency, foreign language or minor requirements for this degree
- A minimum of 30 semester credit hours of graduate level (6000 or 7000) course work, which may include three semester credit hours of CIVL 7986
- The specific plan of study must be approved by the student’s three-faculty advisory committee

M.S. and Ph.D. Programs

With departmental approval, it is also possible to complete thesis-requiring master’s of science and doctoral degrees via a combination of distance learning and on-campus activities.

Course Offerings

- CIVL 6116 Open Channel Hydraulics 3 hours
- CIVL 6156 Groundwater Hydraulics 3 hours
- CIVL 6216 Chemical Principles of Environmental Engineering 3 hours
- CIVL 6246 Air Pollution 3 hours
- CIVL 6256 Biological Principles of Environmental Engineering 3 hours
- CIVL 6336 Landfills 3 hours
- CIVL 6346 Geosynthetics and Soil Improvements 3 hours
- CIVL 6356 Earth Retaining Structures 3 hours
- CIVL 6426 Construction Management 3 hours
- CIVL 6506 Traffic Engineering Analysis 3 hours
- CIVL 6816 Pavement Design and Construction 3 hours
- CIVL 7126 Hydrologic Modeling 3 hours
- CIVL 7216 Methods of Pollutant Analysis In Environmental Engineering 3 hours
- CIVL 7226 Water and Wastewater Operations and Processes I 3 hours
- CIVL 7236 Water and Wastewater Operations and Processes II 3 hours
- CIVL 7246 Water And Wastewater Operations and Processes III 3 hours
- CIVL 7256 Biological Wastewater Treatment 3 hours
- CIVL 7266 Environmental Nutrient Control Processes 3 hours
- CIVL 7286 Surface Water Quality Modeling 3 hours
- CIVL 7316 Foundation Engineering 3 hours
Special Requirements: Students with degrees in fields other than civil engineering

Historically, a majority of the students entering our program have previously earned undergraduate degrees from Accreditation Board for Engineering and Technology (ABET) accredited civil engineering programs. Persons who hold college degrees in fields other than civil engineering, or who hold civil engineering degrees from programs that are not ABET accredited, are required to complete the equivalent of the following Auburn University undergraduate courses before entering our graduate program. [NOTE: these courses do not have to be taken at Auburn.]

Most science and non-civil engineering graduates will have already met many of these requirements. Equivalent mathematics, computing chemistry and physics courses are available at most colleges.

List of prerequisites: At a minimum, potential candidates should have completed the following courses (or the equivalents) to graduate from our civil engineering graduate program:

For online MCE students admitted to environmental engineering
http://eng.auburn.edu/files/acad_depts/civil/prerequisite-environmental-engineering.pdf

For online MCE students admitted to structural engineering
http://eng.auburn.edu/files/acad_depts/civil/prerequisite-structural-engineering.pdf

Procedures: Based on this minimum guideline, the academic credentials of each applicant will be assessed individually and a list of prerequisites will be decided by the graduate coordinator and the major advisor who is interested in supporting/advising the student. This list and the supporting application material will be made available for review to the faculty. The following courses are not required, but are strongly recommended, especially for students desiring to become registered professional engineers.

ENGR 2200 Introduction to Thermodynamics, Fluids and Heat  3 hours
ENGR 2070 Mechanics of Materials  3 hours
ELEC 3810 Fundamentals of Electrical Engineering  3 hours
INSY 3600 Engineering Economy  3 hours
STAT 3010 Statistics for Engineers and Scientists  3 hours

Application Procedures

▶ Fill out the online graduate application at https://app.applyyourself.com/?id=auburn-g (you will be required to create an account)
▶ Upload your letter of intent, resume and recommendation letters
▶ For more information visit grad.auburn.edu
▶ For more information on graduate admission and graduate studies in civil engineering please visit http://eng.auburn.edu/programs/civil/programs/grad/index.html

www.eng.auburn.edu/civil

202 Ramsay Hall • Auburn, AL 36849-5336 • 888-844-5300 • Fax: 334-844-2519 • email:eol@eng.auburn.edu • www.eng.auburn.edu/online