

Civil Engineering

The Department of Civil Engineering offers a Master of Civil Engineering (MCE) degree program that provides qualified students the opportunity for advanced training and specialization through distance education in addition to MCE on campus program. Programs in environmental engineering, structural engineering and geotechnical engineering are currently available through distance education. 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. The MCE degree requires a minimum of 30 semester hours of graduate level courses, which may include three semester hours of CIVL 7986 (Engineering Project). The distance learning MCE program is only available to students residing within the U.S.

M.S. and Ph.D. Programs

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

Course Offerings

(see full list of course offerings at eng.auburn.edu/files/acad_depts/civil/CE-Graduate-courses.pdf.)

CIVL 6116	Open Channel Hydraulics	CIVL 7226	Water and Wastewater Operations and Processes I
CIVL 6126	Hydrologic Analysis and Modeling	CIVL 7236	Water and Wastewater Operations and Processes II
CIVL 6156	Groundwater Hydraulics	CIVL 7246	Water and Wastewater Operations and Processes III
CIVL 6216	Chemical Principles of Environmental Engineering	CIVL 7256	Biological Wastewater Treatment
CIVL 6246	Air Pollution	CIVL 7266	Environmental Nutrient Control Processes
CIVL 6256	Biological Principles of Environmental Engineering	CIVL 7286	Surface Water Quality Modeling
CIVL 6336	Landfills	CIVL 7316	Foundation Engineering
CIVL 6346	Geosynthetics and Soil Improvements	CIVL 7336	Soil Properties
CIVL 6356	Earth Retaining Structures	CIVL 7366	Earth Slopes and Dams
CIVL 6426	Construction Management	CIVL 7396	Insitu Testing of Soil
CIVL 6506	Traffic Engineering Analysis	CIVL 7616	Structural Dynamics I
CIVL 6606	Advanced Reinforced Concrete Design	CIVL 7626	Structural Dynamics II
CIVL 6626	Pre-Stressed Concrete Design	CIVL 7636	Advanced Stress Analysis
CIVL 6636	Advanced Concrete Materials	CIVL 7646	Stability of Structures
CIVL 6646	Structural Masonry Design	CIVL 7656	Advanced Analysis of Framed Structures
CIVL 6656	Advanced Steel Design	CIVL 7666	Finite Element Methods in Structural Mechanics
CIVL 6676	Advanced Structural Analysis	CIVL 7686	Fatigue and Fracture Mechanics
CIVL 6696	Timber Design	CIVL 7716	Applied Elasticity
CIVL 6706	Design for Lateral Loads	CIVL 7726	Earthquake Engineering
CIVL 6716	Structural Repair	CIVL 7976	Reliability of Structures or Bridge Engineering
CIVL 6816	Pavement Design and Construction	CIVL 7986	Engineering Project
CIVL 7176	Numerical Methods in Hydraulics and Hydrology		
CIVL 7216	Methods of Pollutant Analysis in Environmental Engineering		

Special Requirements: Students with degrees in fields other than civil engineering

The 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, must complete the equivalent of the Auburn University undergraduate courses before entering our graduate program. 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. The academic credentials of each applicant will be assessed and a list of prerequisites will be decided by graduate coordinator and the major advisor who is interested in advising the student. A list of prerequisite can be found at the following URL:

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

Application Procedures

- ▶ Fill out the online graduate application at app.applyyourself.com/?id=auburn-g (you will be required to create an account)
- ▶ Upload your letter of intent, resume and three recommendation letters
- ▶ Submit official GRE scores and transcripts from all colleges/universities attended
- ▶ For more information visit graduate.auburn.edu (the Graduate School) and eng.auburn.edu/programs/civil/programs/grad/index (Civil Engineering graduate admission and graduate studies)

www.eng.auburn.edu/civil