

CIVIL ENGINEERING MASTER OF ENGINEERING

Leading to a Master of Engineering in Civil Engineering Degree

The Master of Engineering in Civil Engineering (MEng. CE.) program provides advanced experience with post-graduate civil engineering principles. The Master of Engineering in Civil Engineering (MEng. CE.) is a course-based professional degree that prepares students for the engineering practice. Students must complete a minimum of 31 total credits, which includes a one-credit course in professional perspective. The Master of Engineering in Civil Engineering (MEng. CE.) can be pursued on a full-time basis (three-four courses per semester), leading to completion in as little as one year, or on a part-time basis (one two courses per semester), leading to completion in under two years. The Master of Engineering in Civil Engineering (MEng. CE.) is designed to meet criteria outlined by ASCE regarding post-baccalaureate education by addressing current and future local, national, and global needs, and is widely supported by representatives of the private, public, and academic sectors of the civil engineering profession.

Program Goals

The Master of Engineering in Civil Engineering (MEng. CE) program emphasizes addressing real-world engineering problems as a practicing professional engineer while addressing the American Society of Civil Engineers (ASCE) recommended body of knowledge for future civil engineers. Per the recommendation of the ASCE (www.asce.org) and as required by state by state regulations, civil engineering graduates and practitioners are strongly encouraged to become licensed engineers, which allows engineers to take personal responsibility for the work they perform for the public and private clients.

Student Outcomes

Graduates of the Master of Engineering in Civil Engineering (MEng. CE) program will be able to:

- Demonstrate competence in a computer simulation in civil engineering.
- Demonstrate competence in sustainable engineering design.
- Identify, evaluate, and apply project management tools and techniques to engineering issues pertaining to intra-disciplinary and inter-disciplinary teams.
- Research, analyze, and communicate information related to advanced topics and designs.
- Demonstrate the knowledge, tools, and techniques associated with advanced topics and designs.

Total credits for degree: 31 credits

Select 30 credits in CIVE courses and complete ENGR7101

Course	Title	Credits
CIVE7000	CONSTRUCTION ENGINEERING MANAGEMENT	3
CIVE7200	SUSTAINABLE INFRASTRUCTURE	3
CIVE7275	ENVIRONMENTAL BIOLOGICAL SYSTEMS	3
CIVE7300	TRAFFIC ANALYSIS & SAFETY	3

Course	Title	Credits
CIVE7375	CONTAMINANT FATE AND TRANSPORT	3
CIVE7500	ADVANCED FOUNDATION ENGINEERING	3
CIVE7575	PHYSICAL & CHEMICAL TREATMENT PROCESSES	3
CIVE7600	ADVANCED STEELE DESIGN	3
CIVE8100	ENGINEERING MODELING & ANALYSIS	3
CIVE8250	ENGINEERING ESTIMATING & SCHEDULING	3
CIVE8400	HIGHWAY DESIGN & TRANSPORTATION PLANNING	3
CIVE8550	SITE PLANNING & DEVELOPMENT	3
CIVE8700	BRIDGE DESIGN	3
CIVE8900	DIRECTED PROJECTS	3
ENGR7101	PROFESSIONAL PERSPECTIVES	1