

MASTERS OF ENGINEERING (M.Eng.) in Civil Engineering

Offered by the Department of Civil and Environmental Engineering, FAMU-FSU College of Engineering



Overview

The Master of Engineering (M.Eng.) option is a professional Master's degree for civil engineering professionals who are working in the field as well as for recent B.S. in Civil and Environmental Engineering graduates. The M.Eng. option is catered to students who wish to pursue their advanced degree either part-time or on an accelerated one-year track.

M. Eng. Curriculum

Through the M.Eng. in Civil Engineering students will be trained in advanced civil engineering topics and professional development issues. The curriculum includes a total of 30 credit hours:

- Speciality/depth courses (15 credit hours): Structural, geotechnical, transportation, construction, environmental, and water resources engineering, infrastructure, and sustainability
- Supplemental electives (12 credit hours): Other engineering areas, sciences, mathematics, computer/computational science, social sciences, public policy, urban/regional planning, business, law
- Math statistics, or computation (3 credit hours)
- May include up to two 4000-level courses and up to two Directed Independent Study (DIS) courses
- Comprehensive Exam during final semester
- Courses available via distance learning (see back)

Admissions Requirements

- B.S. degree in Civil Engineering, Environmental Engineering, or related engineering discipline from an accredited college or university.
- Minimum GPA of 3.0 on a 4.0 scale, on all work attempted while registered as an upper division student.
- Satisfy at least one of the following: 1) Graduate record examination (GRE) minimum percentile ranks of 25% (score of 144) on the verbal reasoning section and 65% (score of 153) on the quantitative section; for valid GRE tests taken prior to August 2011, minimum of 370 on the verbal reasoning section and 680 on the quantitative reasoning section; 2) evidence of passing the NCEES Fundamentals of Engineering (FE) exam; or Principles and Practice of Engineering (PE) exam; or 3) hold PE licensure in any state
- Three letters of recommendation from academic professionals
- Personal statement describing reasons for pursuing the M.Eng. degree and career goals
- International students whose native language is not English will be required to pass the TOEFL examination and demonstrate proficiency in English prior to admission according to university guidelines.

Now Online!



For more information, please contact us at:

The Department of Civil and Environmental Engineering
Florida A&M University-Florida State University
College of Engineering

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850.410.6139 or GradCEE@fsu.edu | www.eng.fsu.edu/cee/

MASTERS OF ENGINEERING ON-LINE COURES OFFERINGS

<http://apps.oti.fsu.edu/RegistrarCourseLookup/SearchResults>

CEG5115 FOUNDATION ENGINEERING / *Tawfiq, Kamal S. PhD, PE*

Design of spread footings, pole and caisson foundations, retaining structures and waterfront structures. Investigation of slope stability.

CES5845 COMPOSITES IN CIVIL ENGINEERING / *Spainhour, Lisa K. PhD, PE*

This course covers fundamental theories of composite materials. Topics include forms of composites and their reinforcements; physical, chemical, and mechanical properties; design and testing methods; as well as civil engineering applications of composite materials.

CGN5825 SITE DEVELOPMENT / *Arnaldo, Salvador G. MS, PE*

The course consists of integrated design of site layout, roads, parking, grading, storm drainage systems, sanitary sewers, potable water distribution systems, and regulatory agency conformance.

ENV5419 APPLIED ENVIRONMENTAL ENGINEERING CHEMISRTY / *Watts, Michael J. PhD, PE*

This course covers applications of fundamental principles from general, organic, and biological chemistry to major environmental engineering processes. Emphasis is placed on the chemistry of water treatment.

TTE5205 TRAFFIC ENGINEERING / *Moses, Ren N. PhD, PE*

This course focuses on the nature, characteristics, and theories of traffic flow. The course also discusses street and highway traffic problems, traffic survey procedures, origin-destination studies, the theory and design of automatic control of traffic systems, and transit systems.

CGN5930 SUSTAINABLE DESIGN / *Echo Gates, MS, PE, LEED®AP*

This course examines current systems available to assist in the sustainable design as it applies to Civil Engineering. The course will explore the LEED® and Envision rating systems for sustainable design.

ENV5105 AIR POLLUTION CONTROL / *Gang Chen, PhD, PE*

This course investigates analytical concepts for determination of sources, amounts, and transport of air pollutants; health and environmental effects; design of control devices and management programs.

For more information:

http://www.eng.fsu.edu/cee/resources/pdf/Graduate_Handbook_CEE.pdf