

Board Meeting
January 31, 2019

ESTABLISH THE MASTER OF SCIENCE IN CONSTRUCTION ENGINEERING
AND MANAGEMENT, COLLEGE OF ENGINEERING AND THE GRADUATE
COLLEGE, CHICAGO

Action: Establish the Master of Science in Construction Engineering and Management, College of Engineering and the Graduate College

Funding: No New Funding Required

The Chancellor, University of Illinois at Chicago, and Vice President, University of Illinois with the advice of the Chicago Senate, the College of Engineering, and the Graduate College recommends the establishment of the Master of Science in Construction Engineering and Management.

Over the next ten years, the demand for construction engineering and management professionals and graduates will increase. The M.S. in Construction Engineering and Management is built upon the educational, teaching, and research infrastructure of the Department of Civil and Materials Engineering. It will prepare professionals to understand, obtain, and execute the array of technical competencies and required soft skills associated with the industry. Competencies and skill sets include leadership, construction cost analysis and control, construction planning and scheduling, construction operations management and productivity, construction business development, and client relationship building.

The degree is geared toward alumni and recent graduates of undergraduate programs in civil engineering, construction management, or related disciplines; experienced or mid-career construction management professionals who seek career advancement; and veterans, military personnel, and army engineers who seek additional responsibilities in construction project management and engineering leadership. The degree can be completed through three pathways: thesis, project, or coursework only. It will require 36 hours, including five required courses (20 hours) and one or more selective courses. Selective courses will be offered by agreement with a number of departments, including mechanical and industrial engineering, urban planning and policy, public administration, communication, managerial studies, and information and decision sciences. The Department of Civil and Materials Engineering conservatively estimates 15 students will enroll in year one of the new degree, and approximately 23 once fully implemented.

The Board action recommended in this item complies in all material respect with applicable State and federal laws, University of Illinois *Statutes*, *The General Rules Concerning University Organization and Procedure*, and Board of Trustees policies and directives.

The Executive Vice President and Vice President for Academic Affairs concurs with this recommendation. The University Senates Conference has indicated that no further Senate jurisdiction is involved.

The President of the University recommends approval. This action is subject to further review and approval by the Illinois Board of Higher Education.