Master of Science in Civil Engineering
with a focus on Construction Management  (30-credits)

Offered both in class at our Oakland campus and online

CURRICULUM OVERVIEW
The University of Pittsburgh offers a master’s degree program for working construction management professionals and full-time students created to provide an advanced education in construction management. The program addresses the growing needs of both government and private industry organizations for professionals with advanced skills in construction management. Program faculty includes full-time faculty with decades of industry experience, as well as experienced working professionals with practical knowledge of today’s best industry practices.

ADMISSION REQUIREMENTS
Most students who successfully apply for admission to graduate-level civil engineering programs at the Swanson School of Engineering have a BS in civil engineering from an ABET-accredited university program. However, it is recognized that certain individuals who have an undergraduate degree in a field other than civil engineering or construction management may have significant experience in the construction industry, possibly making them suitable candidates for admission. Therefore, students who have a BS in engineering in any field, and who also have relevant industry experience of nominally three years or more, are encouraged to meet with the Program Director to determine suitability for admission to the program.

Another way to earn elective credit is via transfer; however, the requirements are very specific and require advisor approval. If students have completed graduate level coursework in engineering or construction management at another accredited university prior to matriculating at the University of Pittsburgh, and have not applied this coursework toward the required courses to complete another degree or certificate program, they may be able to transfer in up to six credits, pending Program Director approval.

For students who are interested in applying for admission to the Master of Science Program, application deadlines posted in the University bulletin are strictly adhered to. In addition, MS Program applicants must submit GRE scores as part of their application package.

All students must formally apply for admission to Pitt’s graduate engineering programs through ApplyYourself, via engineering.pitt.edu/graduateadmissions.
Master of Science in Civil Engineering (continued)

Required courses for the 30-credit MS in Civil Engineering, construction management concentration, professional track include the following three-credit courses:

**CORE COURSES (18 credits)**

CEE 2201 – Construction Cost Estimating  
CEE 2202 – Construction Scheduling  
CEE 2203 – Construction Methods and Equipment  
CEE 2204 – Construction Law and Risk Management  
CEE 2205 – Construction Finance and Cost Control  
CEE 2206 – Construction and Cost of Electrical Systems  
OR  
CEE 2207 – Construction and Cost of Mechanical Systems

**ELECTIVES COURSES (12 credits)**

Electives courses may be selected from a variety of graduate technical electives at the Swanson School of Engineering. Your advisor must approve all elective courses in advance.

Recommended electives include the following:

IE 2301 – Introduction to Safety Engineering  
CEE 2340 – Concrete Structures 2  
ENGR 2632 – Sustainable Development in Mining  
IE 2725 – Design for Injury Prevention  
CEE 2610 - Engineering for Sustainable Development  
CEE 2609 – Life Cycle Assessment Methods  
CEE 2620 – Advanced Green Building and Construction  
CEE 2218 – Design for the Environment  
CEE 2230 – Building Information Modeling  
CEE 2750 – Project Development and Implementation  
IE 2302 – Engineering for Process Safety  
CEE 2725 – Public Transportation Systems  
CEE 2730 – Highway Engineering  
CEE 2346 – Repair and Retrofit of Structures  
CEE 2721 – Travel Demand Analysis  
CEE 2720 – Urban Transportation Planning  
ECE 2795 – Microgrid Concepts and Distributed Generation Technology

For additional information about the MS in Civil Engineering, with focus on construction management please contact:

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