CIVIL ENGINEERING

Transportation Engineering Focus Program
Professional Master of Science*

Offered on-campus with evening classes available for working professionals

WHY STUDY CIVIL ENGINEERING WITH A TRANSPORTATION ENGINEERING FOCUS AT THE UNIVERSITY OF PITTSBURGH?

Swanson’s Civil and Environmental Engineering Department offers a Master of Science in Civil Engineering with a Transportation Engineering Focus. This 30-credit, professional (non-thesis) program addresses the current industry need for skilled engineers to plan, design, deliver, and operate transportation systems. Our curriculum incorporates a quantitative approach to solving transportation issues with a strong emphasis on computer applications. No one particular mode of transportation is the focus. Rather, through our faculty, who include those performing cutting-edge research, as well as experienced professionals with practical knowledge, our students gain the knowledge and skills necessary to analyze all modes of transportation as applied to public and private sectors and the movement of people and goods. Our program is uniquely positioned to train the next generation of transportation engineers with the support from our Center for Sustainable Transportation Infrastructure (CSTI).

CENTER FOR SUSTAINABLE TRANSPORTATION INFRASTRUCTURE (CSTI)

Created in 2007, the CSTI was formed to expand previous successful educational and research collaborations between the Pennsylvania Department of Transportation (PennDOT) and the University of Pittsburgh. CSTI’s mission is to improve the sustainability of the transportation infrastructure through collaborative, multi-disciplinary research efforts and through the education of the workforce. Organizational and technical support through the Center for our Graduate Transportation Engineering program create a learning experience which emphasizes creation of solutions to current obstacles and future sustainable infrastructure concerns.

FLEXIBILITY FOR WORKING PROFESSIONALS

Designed to fit the schedule of a working professional and provide you with an immediate advantage in the workplace, our professional MS in Civil Engineering with a Transportation Engineering Focus is available part-time. Available in the evenings, our program’s classes accommodate a demanding professional schedule while providing a collaborative learning environment of students with similar interests but diverse educational and professional backgrounds.

*Thesis Option available with Program Director permission

ADMISSIONS REQUIREMENTS

BS in Engineering from an ABET accredited university program,

OR

BS in other field plus a minimum of three years of industry experience with appropriate coursework in civil engineering, mathematics, economics, and statistics.

NOTE: Candidates with other educational and professional backgrounds will be considered on an individual basis. Additional coursework may be required to ensure skill set necessary for success in the program.

FOR MORE INFORMATION

engineering.pitt.edu/civil

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Professional Master of Science (continued)

Upon acceptance, each of you will be assigned a faculty advisor to help guide your studies. With 15 required credits and 15 electives credits included in the program, you and your advisor can tailor the program to meet your educational goals. Our program’s curriculum is constructed around three focus areas: planning, design and operations.

DELIVERY
- On-Campus with Evening Courses Available

TOTAL CREDITS
- Masters – 30

ENTRANCE EXAM
- Applicants from non-ABET accredited programs must complete the GRE

ADDITIONAL ADMISSIONS REQUIREMENTS
- Three Letters of Recommendation
- Unofficial Transcripts

Required for professional MS – all of the following four courses
CEE 2700 Transportation Management and Operations (fall)
CEE 2710 Traffic Control Systems (spring) – Operations
CEE 2720 Urban Transportation Planning (fall) – Planning
CEE 2750 Transportation Project Development (spring)

In addition, one of the following courses is required for this degree
CEE 2714 Pavement Design (fall) – Design
CEE 2730 Highway Engineering (spring) – Design

Computing and Operations

Electives – 15 credits
Students are encouraged to explore elective options with the Program Director but traditionally satisfy electives from Civil and Environmental (CEE) graduate courses. Courses must be approved by your faculty advisor and are available across disciplines including additional transportation courses, construction management, or safety engineering as examples. Please visit engineering.pitt.edu/civil for more elective information. Examples of recommended transportation electives include:

Transportation Graduate Courses
CEE 2105 Advanced Civil Engineering Materials
CEE 2347 Bridge Engineering
CEE 2711 ITS Operation and Design
CEE 2715 Pavement Rehabilitation
CEE 2717 Components, Properties and Design of Portland Cement Concrete
CEE 2718 Advanced Construction and Bituminous Materials
CEE 2720 Urban Transportation Planning (fall) – Planning
CEE 2725 Public Transportation Systems

For more information about our Graduate Civil Engineering and Transportation Engineering Programs, please contact:

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