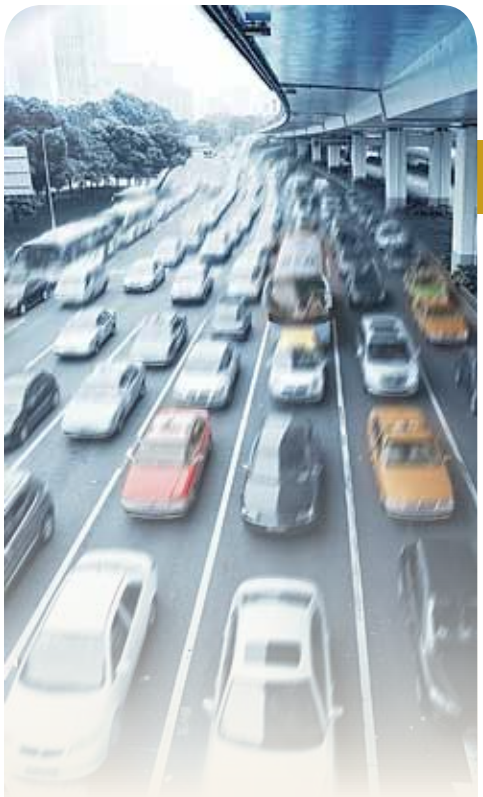

UNIVERSITY OF PITTSBURGH | ***SWANSON*** *SCHOOL OF ENGINEERING*

CIVIL AND ENVIRONMENTAL ENGINEERING

Distance-Enabled Master of Science in Civil Engineering, with a focus on Transportation Engineering

(30-credit Professional Track)

CURRICULUM OVERVIEW AND PROGRAM REQUIREMENTS

The University of Pittsburgh now offers a master's degree program for working transportation engineering professionals created to provide an advanced education in planning, design, and operations of transportation systems. The program addresses the growing needs of both government and consulting organizations for professionals with advanced skills in transportation project development and delivery. Program faculty includes full-time faculty performing cutting-edge research, as well as experienced professionals with practical knowledge of today's best industry practices.

DISTANCE-ENABLED LEARNING

Students in distance-enabled programs are working professionals, and need flexibility in order to complete professional engineering graduate program requirements in a timely manner. Therefore, students in this program have three options. Ideally, students will attend classes on campus in the traditional way. However, when this is not possible, students have the option to "attend" class remotely in real time via the Internet, an option that still allows full classroom interaction. Finally, although this option is only recommended only when schedules do not permit the first or second option, students may view lectures they missed in archived form.

REQUIRED COURSES FOR THE 30-CREDIT PROFESSIONAL TRACK INCLUDE:

Operations (required)

CEE 2700 (3 credits) - Transportation Management and Operations

CEE 2710 (3 credits) - Traffic Control Systems

Planning (required)

CEE 2720 (3 credits) - Urban Transportation Planning

Design

CEE 2714 (3 credits) - Pavement Design

– OR –

CEE 2730 (3 credits) - Highway Engineering

Project Development (recommended)

CEE 2750 (3 credits) - Transportation Project Development

CENTER FOR SUSTAINABLE TRANSPORTATION INFRASTRUCTURE (CSTI)

The CSTI was formed to expand on the successful research and educational collaboration between the Pennsylvania Department of Transportation (PennDOT) and the University of Pittsburgh and to provide organizational and technical support for the Graduate Transportation Engineering Program. The mission of the CSTI is to improve the sustainability of the transportation infrastructure through collaborative, multi-disciplinary research efforts and through the dissemination of information and education of the workforce needed to sustain this critical industrial sector.

CENTER FOR Sustainable Transportation INFRASTRUCTURE

UNIVERSITY OF PITTSBURGH SWANSON school of engineering

UNIVERSITY OF PITTSBURGH SWANSON school of engineering civil & environmental engineering

Distance-Enabled Master of Science in Civil Engineering, with a focus on Transportation Engineering

(*continued*)

ELECTIVES

15 credits

Students may select electives from courses offered by the Department of Civil and Environmental Engineering, from other Departments within the School of Engineering, and from other closely-related schools at the University of Pittsburgh with advisor permission.

Some popular electives within Civil Engineering include:

CEE 2105 - Advanced Civil Engineering Materials
CEE 2715 - Pavement Rehabilitation
CEE 2717 - Components, Properties and Design of Portland Cement Concrete
CEE 2718 - Advanced Construction & Bituminous Materials
CEE 2725 - Public Transportation Systems (recommended)
CEE 2711 - ITS Operations and Design
CEE 2750 - Transportation Project Development

Electives may require on-campus class attendance.

For additional information about the distance-enabled MS in Civil Engineering, with focus on transportation engineering, please contact:

MARK J. MAGALOTTI
Transportation Engineering
Program Coordinator
412-624-8618
Mjm25@pitt.edu

If you have questions about distance-enabled learning at the Swanson School of Engineering, please contact:

JANET L. LITTRELL
Director of Distance Learning
Swanson School of Engineering
412-383-7027
Jll119@pitt.edu