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

CURRICULUM OVERVIEW AND PROGRAM REQUIREMENTS
The University of Pittsburgh offers a master’s degree program for working transportation engineering professionals and full-time students 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.

FLEXIBILITY FOR WORKING PROFESSIONALS
The transportation engineering program provides the flexibility needed for professionals to work in their field and obtain a master’s degree. Classes in the program are offered in the evening to accommodate working schedules. Working professionals can elect to take one or two classes per term to advance to completion of the degree in several years.
Master of Science in Civil Engineering (continued)

REQUIRED COURSES FOR THE 30-CREDIT MS IN CIVIL ENGINEERING, TRANSPORTATION CONCENTRATION:

- 9 credits from the Operations and Planning Core (2700, 2710, and 2720)
- 3 credits from the Design Core (2714 or 2730)
- 18 credits of electives (from Civil Engineering or other University of Pittsburgh departments and schools, with Program Coordinator permission)
- 6 credit thesis option (with Program Coordinator permission)

Required Introductory Class - 3 credit courses
CEE 2700 - Transportation Management and Operations (Fall)

Operations Core Course - 3 credit courses
CEE 2710 - Traffic Control Systems (Fall)

Planning Core Course - 3 credit course
CEE 2720 - Urban Transportation Planning (Spring)

Design Core Course - 3 credit courses (select one)
CEE 2714 - Pavement Design (Fall)
CEE 2730 - Highway Engineering (Spring)

Recommended Electives - 3 credit courses
CEE 2105 - Advanced Civil Engineering Materials
CEE 2347 - Bridge Engineering
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
CEE 2711 - ITS Operations and Design
CEE 2210 - Engineering and Sustainable Development
CEE 2750 - Transportation Project Development
CEE 2996 - Special Investigations
CEE 2999 - MS Thesis
PIA 2125 - City and Regional Theory and Practice
PIA 2010 - Public Management

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

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