

# Graduate Certificate in Transportation

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*Nohad A. Toulan School of Urban Studies and Planning,  
College of Urban and Public Affairs*

*Department of Civil and Environmental Engineering,  
Maseeh College of Engineering and Computer Science*



## Overview

An equitable and efficient transportation system that safely moves people and goods is critical to healthy, livable communities. A carefully planned, designed, maintained, and continually improved system significantly influences the well-being of every citizen, preserves natural resources, and enhances economic productivity. Increasingly, transportation professionals need multi-disciplinary knowledge and skills to anticipate social, environmental, and technological trends and incorporate them into intelligently-

integrated transportation systems. The Graduate Certificate in Transportation offers graduate education for those seeking to build upon their undergraduate training and expand their capabilities. Students in the program can choose among a wide range of relevant courses in transportation planning and engineering to develop their analytical, practical, and problem-solving skills.

## Who Should Apply

The Certificate is designed for established professionals who want to enhance their skills, and also for those seeking to develop technical and analytical knowledge to enter the fascinating and multidisciplinary field of transportation. Candidates must have a bachelor's degree with a minimum 2.75 GPA. Backgrounds may include planning, engineering, architecture, design, business administration, geography, mathematics, statistics, economics, political science, computer science, and other related majors.

## Center for Transportation Studies

The Center for Transportation Studies is dedicated to stimulating and conducting collaborative multi-disciplinary research on multi-modal surface transportation issues; educating a diverse array of current practitioners and future leaders in the transportation field; and encouraging implementation of relevant research results. Through collaboration and partnerships with transportation agencies and industry, the

Center for Transportation Studies focuses on three themes: advanced technologies; integration of transportation systems with land use planning; and healthy communities. For regular updates, subscribe to the CTS e-mail list:



<http://www.cts.pdx.edu/email.htm>

## To Apply

The Graduate Certificate in Transportation is an option on the PSU Application for Graduate Certificate Programs

Submit the following materials to the Center for Transportation Studies (see address below):

1. The Graduate Certificate Program application:  
[http://www.pdx.edu/sites/www.pdx.edu.ogs/files/Domestic\\_Grad\\_App\\_packet.pdf](http://www.pdx.edu/sites/www.pdx.edu.ogs/files/Domestic_Grad_App_packet.pdf)
2. A \$50 non-refundable application fee. Authorize a credit card payment at the bottom of the application, or send a check or money order made out to Portland State University.
3. One official sealed transcript from each college and university you have attended
4. A recent résumé or vita.
5. A statement of purpose for applying (one page maximum)

Note: Students already admitted to a PSU master's or doctoral degree program and currently registered for coursework should instead request addition of the Graduate Certificate using the GO-19M or GO-19D form, available from <http://www.pdx.edu/ogs/forms>.

## Requirements

The Graduate Certificate in Transportation is a 21-credit-hour program. You can complete it in one year on a full-time basis, or in two years on a part-time basis. The Certificate includes courses from the Nohad A. Toulan School of Urban Studies and Planning (USP) in the College of Urban and Public Affairs and the Department of Civil and Environmental Engineering (CE) in the Maseeh College of Engineering and Computer Science.

## The PSU Advantage

Portland, Oregon, is at the forefront of collaborative urban transportation solutions with links to land use, and is one of America's most livable cities. Transportation education and research at Portland State University are multidisciplinary and focus on transportation systems, infrastructure, policy, and planning. Our faculty cover all modes of transport, and the relationships and interactions of transportation systems with land use, the economy, the environment, institutions, and people. Recent research topics includes: transit operations; the relationships among urban form, travel behavior, and health; intelligent transportation systems; health and safety issues; and transportation finance.



## Three Required Courses (9 credits):

- USP 556 Urban Transportation: Problems & Policies (3)
- USP 544 Urban Transportation Planning (3)
- USP 570 Transportation and Land Use (3)

## Transportation Electives (12 credits):

- USP 537 Economics of Urban Transportation (3)
- USP 543 Geographic Applications in Planning (3)
- USP 565 Pedestrian and Bicycle Planning (3)
- USP 587 Travel Demand Modeling (3)
- USP 591 Geographic Information Systems I (4)
- USP 593 Advanced GIS Applications (3)
- CE 550 Transportation Safety Analysis (4)
- CE 551 Traffic Control & Analysis (4)
- CE 552 Highway Design for Capacity (4)
- CE 553 Freight Transportation and Logistics (4)
- CE 555 Intelligent Transportation Systems (4)
- CE 556 Traffic Engineering (4)
- CE 557 Pavement Design (4)
- CE 558 Public Transportation (4)
- CE 559 Transportation Operations (4)
- CE 560 Access Management (4)
- CE 507 Benefit-Cost Analysis for Transp. Eng. Seminar (1)
- CE/USP 507 Transportation Seminar (1)

## CENTER FOR TRANSPORTATION STUDIES

Portland State University  
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## MAILING ADDRESS

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