**OREGON INSTITUTE OF TECHNOLOGY**

**Civil Engineering Department**

# CIV 573/407 Transportation and Land Development Fall 2009

**CLASS TIME**

MW 12:00-12:50pm OW213

M 2:00-5:00pm CO115C

**CREDITS** 3 credit hours

**INSTRUCTOR** Dr. Roger Lindgren, P.Eng.

Office: OW103 – Office hours as posted or by appointment

E-Mail: [roger.lindgren@oit.edu](mailto:roger.lindgren@oit.edu)

**PREREQUISITES** CIV 371 Transportation Engineering

Junior/Senior Class Standing

**Resources**

Course Website

*http://www.oit.edu/civil/civ573*

Institute of Transportation Engineers (ITE) website

*http://*www.ite.org

Transit-Oriented Development in the United States: Experiences, Challenges, and Prospects

online: *http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp\_rpt\_102.pdf*

ITE Trip Generation Publications

online: *http://www.ite.org/tripgen/trippubs.asp*

**CATALOG DESCRIPTION** Study of interactions between land development activity and the transportation network. Application of planning and engineering design techniques to manage the impacts of development upon the transportation system.

**COURSE OBJECTIVES** Upon successful completion of this course, the student will be able to

* think critically about the interplay between land use and transportation.
* use Institute of Transportation Engineers (ITE) trip generation procedures to prepare basic traffic impact analyses.
* conduct a trip generation study to industry standards.
* describe and discuss transit oriented developments (TOD).
* assess the demand for and prepare basic design elements of parking facilities.
* describe the role of bicycle and pedestrian modes.
* describe the relationship between working professionals and technical societies such as ITE.

**EXAMS** There will be a midterm and final exam.

**GRADING** Assignments/Projects 40%

Individual Assessment/Professionalism 10%

Test and Quizzes 50%