

CE & CRP 775 Urban Transportation Planning (4 units) Fall 2009

A more detailed syllabus will be provided by each instructor.

Instructors	Rabi Mishalani	Philip Viton
Room:	491C Hitchcock Hall	296 Knowlton Hall
Phone:	292-5949	292-2119
E-mail:	mishalani@osu.edu	viton.1@osu.edu

Meeting Time and Place

Lectures: Monday and Wednesday 3.30 – 5.18
Knowlton Hall, Room 195

Description

This course provides an introduction to the modeling techniques used to forecast traffic flows in urban and regional areas. It is the basic course in a sequence dealing with traffic flow modeling and prediction. General concepts in transport economics, including the supply of and demand for transportation, are discussed. Furthermore, the methodology behind the four-step planning process is presented in detail. The limitations of this methodology and alternative modeling approaches are discussed. At the conclusion of the course, the students should be able to calculate expected traffic flows in a variety of circumstances. The course is quantitative and emphasizes the application of methods. Conditions of use, assumptions, and accuracy of results are examined.

Requirements

1. Readings.
2. Problem sets.
3. Exams.

Each of the two instructors will determine a grade for his subject period. The course grade will be based on the average of these two grades. Further grading details will be discussed in class.

Policy on Academic Misconduct

The solution to the problem sets and exams should be each student's own independent work. Any deviation from this requirement constitutes an act of academic misconduct and will be addressed in a strict and serious fashion.

OSU defines academic misconduct "as any act that undermines the academic integrity of the University or subverts the educational process. It includes plagiarism and dishonest practices associated with examinations as well as any other form of misconduct associated with academic work or grading. Plagiarism is the act of taking ideas, writings, or drawings of another and offering them as one's own. Plagiarism may be copying of someone else's work, word-for-word, in part or in the whole without acknowledgment. Other forms of plagiarism involve paraphrasing the structure and language of another person's work by changing the order or omitting sentences, or writing based strictly on the ideas of another."

References

In addition to the required readings, references may be provided by each instructor.

Website

The URL for the course website is the following:

<http://facweb.knowlton.ohio-state.edu/pviton/courses2/crp775>

Topics and Schedule

Period	Instructor	Schedule	Topics
1	Rabi Mishalani	Sept. 23 – Oct. 28	Motivation Growth Factors Four-Step Process Trip Generation Traffic Assignment
2	Philip Viton	Nov. 2 – Dec. 4	Trip Distribution Modal Split Auto Occupancy