

# INFRASTRUCTURE AND TRANSPORTATION SYSTEMS

CIVE 303 - S 2008 9:00-9:50 pm MWF (A202 Clark) CRN: 12099

## Course objectives

This core course covers spatial aspects of infrastructure; planning, design, and construction; engineering economics; and project management. Emphasis is on road transportation systems. Specific topics are: review of surveying and mapping, road geometry and introduction to GIS; project planning, development, design, and construction; quality control, and project management; applications of design to site work, built environment, transportation and utilities, and waste management; and engineering economics and project management.

## Prerequisites

Completion of CE freshman and sophomore core courses, basic knowledge of engineering computing, spreadsheets, AutoCad, surveying, introduction to engineering profession, and engineering report preparation, including use of software.

## Course policies and procedures

Homework is due at the beginning of class each Wednesday.

Course grades will be determined as follows:

Labs and other homework	25%
Hour exams	50%
Final exam	25%

Most course material will be presented in class and posted on RamCT. Students are expected to access material on RamCT. Paper handouts will normally not be used.

## Textbooks

James R. Wirshing and Roy H. Wirshing, Introductory Surveying, Schaum's Outline. McGraw-Hill. ISBN: 0-07-071124-0

James T. Ball, Transportation Engineering. McGraw-Hill PE Exam Depth Guide  
ISBN: 0-07-136180-4

Schaum's Outline of Engineering Economics by Jose A. Sepulveda, William E. Souder, Byron S. Gottfried. ISBN: 0-07-0238340/ 9780070238343.

Other material will be made available via RamCT or by reference to other websites.

## Instructors

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