

CE 103-009

Introduction to Careers in Engineering

Transportation Engineering



Source of image:
www.atlp.org/pics/menage.jpg

Course Information, Fall 2010

Sam Labi

Purdue University School of Civil Engineering
550 Stadium Mall Drive
W. Lafayette, IN 47907

CE 103-009

Introduction to Careers in Engineering – Transportation Engineering

Class Time and Venue: Room:

Contact Information:

Instructor (Sam Labi) CIVL G175A 494-5926 labi@purdue.edu

Office Hours: Instructor: To be announced

Course Type

CE 103, a core course for undergraduate studies in Civil Engineering, is useful to all undergraduate students intending to pursue a career in civil engineering and related disciplines.

Course Objectives and Description

This course begins by tracing the fascinating history of the development of physical facilities and vehicles used to transport people and goods across land, sea, and air. Then the course discusses the evolving trends of human development that pose new challenges and introduce new shifts in the transportation of goods and people in the present era, and proceeds to identify interesting future designs and concepts for transportation. In the second part of the course, the student is provided a platform to view the development of any transportation facility as a multi-step process and identifies the duties of the transportation engineer at each step and the knowledge needed by the transportation engineer to carry out those duties. As the student will realize from the course, the acquisition of this knowledge is consistent with the inclusion of concepts from a gamut of disciplines including sociology, psychology, environmental science, economics, finance, and statistics. That way, solutions to transportation problems can be holistic, environmentally sustainable, and relevant to the current and future needs of the society. Throughout the course, interesting real or hypothetical case studies and case histories will be utilized to provide appropriate perspectives for the student. The course will comprise interesting lecture presentations, video shows, a term paper, and jeopardy game sessions.

Course Material

Course notes will be provided on the course web site. The address is <http://www.itap.purdue.edu/tlt/blackboard/index.cfm>

Class Attendance

You are expected to attend all classes. Absences should be preceded by notification (e-mail or otherwise). Class attendance records will be taken at random and your class participation score will be partly based on these records.

Homework Policy

Please turn in your homework just before the start of class session on the day that they are due. Justifiable excuses for late submission should be preceded by early notification (e-mail or otherwise) with a good explanation. Every late day of submission results in 20% loss of overall points for the assignment. Let's resolve any adjustments to homework grades within two weeks of the day on which that homework assignment is returned. All grades must be finalized within this period.

Grading Policy

There will be no exam. However, there will be a term project.

The grading distribution for the course is as follows:

Term Project Inception Report	20%
Term Project Interim Report	20%
Term project Final Report	40%
Class Participation	20%

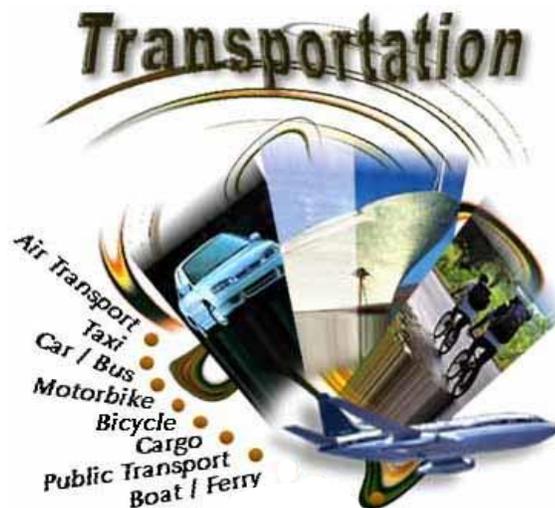
Grade Limits will be as follows:

90 – 100%	A
80 – 89.99%	B
70 – 79.99%	C
60 – 69.99%	D
<60%	F

In the course of the semester, the above grading scheme may be amended at the discretion of the Instructor. The descriptions at the right will however remain the same.

Student Conduct

Students are expected to abide by the Purdue University Student Conduct Code. Further, it is assumed that each and every student subscribes to a personal code of ethics based on a value system that adheres to the highest standards of academic integrity. Any breach of academic honesty or disruptive classroom behavior will be handled in accordance with established university procedures. You will be required to carry out assignments independently. I am assuming you want to have a great and stress-free semester. And let's try to make it an interesting one too! Go Boilers!



Source: baliclick.com

CE 103-009: Introduction to Careers in Engineering (Transportation Engineering)
COURSE OUTLINE

SECTION 1 INTRODUCTION

SECTION 2 TRANSPORTATION MODES

SECTION 3 TRANSPORTATION SYSTEMS – THE PHASES OF DEVELOPMENT

SECTION 4 OTHER TOPICS IN TRANSPORTATION ENGINEERING