

Assessment Summary Report

CEE 3604 - Introduction to Transportation Engineering

Semester/Year : Spring 2013

CRN : 19165

Description : Planning, design, and operation of transportation systems with emphasis in multimodal transportation techniques and unified system engineering theories to analyze large-scale transportation problems. Discussion of Intelligent Vehicle Highway Systems (IVHS) and hands-on experience in computer models in transportation operations and planning. Interactions between transportation infrastructure and environmental engineering planning.

Timetable Instructor: M Mladenovic

Assigned Instructor: Montasir Abbas

Course Objectives:

- 1 Model vehicle acceleration and deceleration behavior and estimate the distance required to accelerate and decelerate.
- 2 Design the geometric vertical and horizontal alignment of highways.
- 3 Design flexible and rigid pavements using the AASHTO procedures.
- 4 Estimate different traffic stream parameters (flow, density, and speed) and estimate queues at roadway bottlenecks.
- 5 Estimate freeway, multi-lane highway, and two-way highway levels of service.
- 6 Design and evaluate traffic signal timing parameters.
- 7 Forecast traffic volumes for the design of transportation facilities using projection techniques.

Assessment of Course Objective Attainment

Course	Student	Instructor	
Objective Number	Assessment ¹	Assessment ²	Comments - Required for Any Assessment < 70%
1	97.0	82.5	
2	91.0	83.8	
3	75.0	85.6	This objective was finished after the course assessment surveys were completed. This is likely why students rated their ability to do this task lower than many of the other objectives.
4	97.0	74.6	
5	97.0	83.3	
6	94.0	78.3	
7	91.0	85.4	

¹ Student Self-assessment: this number reflects the percentage of students who indicated that they have achieved the stated objective "mostly" or "completely."

² Instructor Assessment: this percentage represents a weighted relevance of course work items (homeworks,

exams, labs, etc.) that the instructor feels are appropriate for assessing the stated course objective and the average class grade for each work item.