

CCET 2620 - Transportation Technology

Fall 2026 Syllabus, Section 01, CRN 41375,

Credit hours: 3

Instructor

Joe Sanson

Associate Professor

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Public Instructor Information

Instructor Title :Associate Professor

Instructor Professional Qualifications: Masters of Science in Civil Engineering -Youngstown State University-2013

Instructor Office Location:4136 Moser Hall

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Course Description

2620. Transportation Technology. Transportation planning and highway system design. Familiarization with AASHTO design manuals; geometric design and signalization of highway segments; capacity analysis and route selection. Cost-benefit analysis for transportation projects. Four (4) hours lecture per week. Prereq. 'C' or better in CCET 2604. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	• Principles of Highway Engineering and Traffic Analysis	Mannering & Washburn	9781119723196

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Introduction & Overview, Economic Impact, Road Vehicle Performance & Accident Analysis	
8/31	Introduction & Overview, Economic Impact, Road Vehicle Performance & Accident Analysis	
9/7	Accident Analysis, Highway Geometry, Exam # 1	
9/14	Accident Analysis, Highway Geometry, Exam # 1	
9/21	Highway Geometry (Vertical & Horizontal)	
9/28	Highway Geometry (Vertical & Horizontal)	
10/5	Highway Geometry (Cross Section & Super elevation), Highway Drainage, Exam # 2	
10/12	Highway Geometry (Cross Section & Super elevation), Highway Drainage, Exam # 2	
10/19	Traffic Flow & Queuing Theory, Exam # 3	
10/26	Traffic Flow & Queuing Theory, Exam # 3	
11/2	Highway Capacity Design	
11/9	Highway Capacity Design	
11/16	Traffic Control & Forecasting – Route Choice	
11/23	Traffic Control & Forecasting – Route Choice	

11/30	Review
12/7	Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.