

CEEN 3720 - Transportation Engineering

Fall 2026 Syllabus, Section 01, CRN 40680,

Credit hours: 3

Instructor

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Public Instructor Information

Ph.D., Civil & Environmental Engineering, University of Pittsburgh, 2020

B.S., Civil & Environmental Engineering, University of Pittsburgh, 2014

B.A., Mathematics/Engineering, Saint Vincent College, 2013

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Course Description

3720. Transportation Engineering. Introductory survey of transportation topics including transportation systems, vehicular operation and control, and transportation planning techniques; introduction to design of highways, airports, and railroads; and traffic engineering. Prereq.: CEEN 2610. 3 s.h. with a minimum grade of C.

Course Readings

Group	Title	Author	ISBN
Required	Traffic and Highway Engineering 5th Edition, or enhanced.	Garber and Hoel	

Traffic and Highway Engineering by Garber and Hoel, 5th Edition, or enhanced. Cengage Learning Publication, 2020.

Do not get the international version!

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	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Ch. 1	The Profession of Transportation	See Blackboard website.
8/31	Ch. 2	Transportation Systems and Organizations	Homework Ch. 1. See Blackboard website.
9/2			Due 9/2 at 9am: HW1
9/7	Ch. 3	Characteristics of the Driver, the Pedestrian, the Vehicle, and the Road	Homework Ch. 2. See Blackboard website.
9/9			Due 9/9 at 9am: HW2
9/11			Due 9/11 at 9am: Transportation Friday - #1
9/14	Ch. 4	Traffic Engineering Studies	Homework Ch. 3. See Blackboard website.
9/21	Ch. 4	Traffic Engineering Studies	See Blackboard website.
9/23			Due 9/23 at 9am: HW3



9/28	Ch. 5	Highway Safety	See Blackboard website. Exam #1 Due 9/28 at 9am: Parking Study
9/30			Due 9/30 at 9am: HW4
10/2			Due 10/2 at 9am: Exam1_closed Exam1_open
10/5	Ch. 5	Highway Safety	See Blackboard website.
10/12	Ch. 6	Fundamental Principles of Traffic Flow	See Blackboard website.
10/16			Due 10/16 at 3:29pm: HW5
10/19	Ch. 6	Fundamental Principles of Traffic Flow	See Blackboard website.
10/26	Ch. 7	Intersection Design	See Blackboard website.
10/30			Due 10/30 at 9am: HW6
11/2	Ch. 7 & 8	Intersection Design/ Intersection Control	See Blackboard website.
11/6			Due 11/6 at 9am: HW7
11/9	Ch. 8	Intersection Control	See Blackboard website.
11/16	Ch. 8 & 9	Intersection Control/ Capacity and Level of Service for Highway Segments	See Blackboard website. Exam #2
11/20			Due 11/20 at 9am: HW8 Exam2_closed Exam2_open
11/23	Ch. 9	Capacity and Level of Service for Highway Segments	See Blackboard website.
11/30	Ch. 10	Capacity and Level of Service for Signalized Intersections / Final Exam Review	See Blackboard website.
12/4			Due 12/4 at 9am: HW9
12/7	Finals Week		Final Exam 12/9/2026
12/9			Due 12/9 at 8am: Final_closed Final_open

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.