University of Connecticut
CE 2710 Transportation Engineering and Planning
Course Syllabus – Spring 2020 – revised March 23, 2020

Instructor: Prof. John N. Ivan John.Ivan@uconn.edu **Office Hours:** by appointment at nexus.uconn.edu
TA: Ge Shi ge.shi@uconn.edu **Office Hours:** F 3 to 4 pm **(WebEx)**
UAA: Lauren Romeo lauren.s.romeo@uconn.edu **Office Hours:** M 2:30 to 3:30 (**WebEx**)

Lectures: MW 3:35-4:25 PM; beginning March 24, 2020 via HuskyCT – Blackboard Collaborate Ultra

Tutorials: Th 9:30 to 10:20 AM, 11:00 to 11:50 AM, TBD

Homework: Homework will be assigned and due on HuskyCT as indicated on the syllabus.

Grading: Each portion of the course work will contribute toward the final grade as follows:
Project / homework = 2/6 Quiz = 1/6 Final Exam (online) = 3/6
Late HW and Projects will not be credited except by prior arrangements based on an appropriate excuse.

Class Date	Topic	Homework	Reading / Notes
Class 1- Wed. Jan. 22	The Coming of the Robot Vehicle		Lecture 1
Class 2- Mon. Jan. 27	The Evolution of Transportation		Lecture 2
Class 3- Wed. Jan. 29	Transportation Today	HW 1	Lecture 3
Class 4- Mon. Feb. 03	Urban Transportation		Lecture 4
Class 5- Wed. Feb. 05	Transportation and Land use	HW 2	Lecture 5
Class 6- Mon. Feb. 10	Basics of Transportation Planning		Lecture 6
Class 7- Wed. Feb. 12	Travel Forecasting - Trip Generation	HW 3	Lecture 7
Class 8- Mon. Feb. 17	Trip Distribution		Lecture 8
Class 9- Wed. Feb. 19	Mode Choice		Lecture 9
Class 10- Mon. Feb. 24	Quiz 1		
Class 11- Wed. Feb. 26	Divided Highways	HW 4	At www.norman.garrick.com
Class 12- Mon. Mar. 02	Trip Assignment		Lecture 10
Class 13- Wed. Mar. 04	Vehicle Flow Theory	HW 5	Lecture 11
Class 14- Mon. Mar. 09	Vehicle Stream Model		Lecture 12
Class 15- Wed. Mar. 11	CLASS CANCELLED	HW 6	
Spring Break			
Class 16- Mon. Mar. 23	Shockwaves in Traffic 1		Lecture 13
Class 17- Wed. Mar. 25	Shockwaves in Traffic 2		Lecture 14
Class 18- Mon. Mar. 30	Analysis of Traffic Operations		Chapter 3.3; Lecture 15
Class 19- Wed. Apr. 01	Freeway Level of Service	HW 7	Chapter 3.4; Lecture 16
Class 20- Mon. Apr. 06	Geometric Alignment - Horizontal		Chapter 5.1; Lecture 17
Class 21- Wed. Apr. 08	Geometric Alignment - Vertical	HW 8	Chapter 5.2; Lecture 18
Class 22- Mon. Apr. 13	Guideline for Alignment Design		Chapter 5.3
Class 24- Wed. Apr. 15	Guidelines for Alignment Design	HW 9	Chapter 5.4; Lecture 19
Class 25- Mon. Apr. 20	Urban Street Design		Chapter 6.1; Lecture 20
Class 26- Wed. Apr. 22	Alignment Design Project	HW 10	Lecture 21
Class 27- Mon. Apr. 27	Roundabouts		Chapter 4.2; Lecture 22
Class 28- Wed. Apr. 29	Designing Roads for Nonmotorized Users		Chapter 6.2