Purdue University
School of Civil Engineering
CE 565: Traffic Operation and Control

Instructor:	Darcy Bullock, P.E.	Office:	Civil 4115
Meeting Times:	M:1230-13:30; 14:30-1730; W: 1230-1330	Phone:	765/494-2226
Office Hours:	W: 13:30-14:30 T (or by appointment)	FAX:	765/496-1105
Location:	CIVIL 2113 (Lab 2123), Phys 14	Internet:	darcy@purdue.edu
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Textbooks: (TSB) Nichols, A. and D. Bullock, "Design Guidelines for Deploying Closed Loop Systems," FHWA/IN/JTRP-2001/11, November 2001. Purchase in CIVL 4154.

(TCSH) Gordon et. al., "Traffic Control Systems Handbook," FHWA, 1996.

Potter Reserve:

(May) May, "Traffic Flow Fundamentals", Prentice Hall, 1990.

(MTES) Robertson, H., J. Hummer, and D. Nelson, "Manual of Transportation Engineering Studies", Prentice Hall, 1994.

(TEH) Pline, J.L, "ITE Traffic Engineering Handbook", Prentice Hall, 1992.

(AASHTO) "A Policy on Geometric Design of Highways and Streets", American Association of State Highway and Transportation Officials", 1990.

(HCM94) "Highway Capacity Manual", Special Report 209, National Research Council, Transportation Research Board, Washington, D.C., 1994. (Filed under TRB at Potter Reserve Desk). (DB is checking on status of HCM2000).

(MUTCD) "Manual on Uniform Traffic Control Devices", Federal Highway Administration, 1988.

(TDH) "Traffic Detector Handbook", Institute of Transportation Engineers, Second Edition.

(MTSD) Kell, J. and I. Fullerton, "Manual of Traffic Signal Design," Institute of Transportation Engineers, Second Edition, 1991.

Course Objective: This course is designed to introduce students to traffic flow theory, traffic signal systems, and typical traffic engineering studies.

Grading: Grades will be computed using the following weights:

Mid Term Exam	20%
Final (Notebook & Exam)	20%
Homework	20%
Lab Units	20%
Paper Review/Presentation	10%
Class Participation	10%

Exams: The midterm exam will be administered during the scheduled class meeting.

Homework: Each student is required to submit his/her own solution to these assignments. Homework is due at the start of class on the date the assignment is due. Late homework assignments will not be accepted. Each homework problem will be graded out of 5 points. **Three** points will be based upon presentation (neatness, organization, completeness, documentation, and references). **Two** points will be based upon technical accuracy. This grading weight is designed to reflect professional importance of documenting engineering calculations.

Reading: You are expected to perform the reading assigned for each period before coming to class.

Attendance: You are required to attend all class meetings. Administrative announcements take place at the beginning of class. It is your responsibility to be punctual.

Class Participation: Many of the class meetings will involve discussions of recent readings or current projects. All students are expected to participate in these discussions.

Academic Honesty: Academic dishonesty will be dealt with according to University regulations and policies. It is your responsibility to understand these regulations prior to submitting your first homework.

Notebook   At the conclusion of this course, your notebook should provide a valuable reference on traffic operations and control. You should use a three ring binder with labeled tab dividers to organize your class notes, lab studies, and homework. Periodically handouts will be distributed reminding you of the items that should be in your notebook. To encourage a neatly organized notebook, your final exam grade will be computed half from your course notebook and half from a take home problem.