Course Description: The purpose of this course is to provide students with an overview of the fundamentals of traffic engineering, with emphasis on field studies, data analysis, level of service, and traffic control devices.

Course Objectives: This course deals with the technical aspects of traffic engineering. It covers the analytical procedures and computational methods employed in a wide variety of tasks related to traffic operations and control. A person who completes this course will be able to identify common operational problems, to carry out traffic engineering studies and to formulate and evaluate alternative solutions.

Instructor: Dr. Scott Washburn
Department of Civil and Coastal Engineering
512-E Weil Hall
Office Hours: Wed, Thur 9:30–11:00 AM, or by appointment
Email: swash@ce.ufl.edu

Meeting Location and Times: Classroom: CSE E107
Tuesday, 5th – 6th periods (11:45 – 1:40)
Thursday, 6th period (12:50 – 1:40)

Course Website: http://elearning.ufl.edu/

Student Material:
  or Special Version (Chapters 5, 6, 7); EBook only. ISBN # 978-1-119-40118-6. Price: $22.60.
  o See ordering instructions on course website.

Additional References
- Highway Capacity Manual
- Manual on Uniform Traffic Control Devices (MUTCD)
- ITE Manual of Transportation Engineering Studies
- ITE Traffic Engineering Handbook
- Highway Safety Manual
Topics Covered:

- Traffic Stream Parameters and their Measurement
- Statistical Applications
- Traffic Capacity Analysis Concepts
- Freeway Facility Analysis
- Two-Lane Highway Analysis
- Fundamentals of Signal Design and Timing
- Signalized Intersection Analysis
- Actuated Signals and Detection
- Unsignalized Intersection Analysis
- Traffic Control Devices
- Traffic Impact Studies
- Basic Safety Analysis

Grading:

Grades will be given at the end of the semester based only on the work completed during the semester. Only assignments received by the due date/time will be eligible to receive full credit. Assignments will be accepted until the beginning of the next class period (11:45/12:50 PM), but will only be eligible to receive up to 75% of the original maximum. No credit will be given for assignments turned in after that period. It is acceptable to work with other classmates, and even recommended, to assist your learning of the material required to complete the in-class assignments. It is NOT acceptable to copy another person’s or group’s assignment solution(s).

The following grade distribution will be used for the course:

- In-class assignments - 25%
- Exam 1 - 25%
- Exam 2 - 25%
- Project - 25%

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<th>Total Percentage of Available Points</th>
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Class Demeanor and Etiquette: This should follow the rules of common sense. Students are encouraged to participate in class discussion and to initiate such discussion whenever they feel that they or the class could benefit from a dialog with the instructor. Other actions that disturb the class are strongly discouraged. Use of a laptop for class-related activities is acceptable, but not for non-class activities (e.g., engaging in chat room discussions, E-mail, or surfing the web). Cell phones and pagers should be turned off or muted (if you need it for potential emergency notification, please see me before class to discuss). There is no official dress code for this class, but please dress appropriately. Again, use common sense--if it is something you typically wear in the bedroom, or on the beach, do not wear it to class.

University/Class Policies

Honesty Policy: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

Students Requiring Accommodations: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Student Privacy
There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

Software Use: All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.
Campus Resources:

Health and Wellness

U Matter, We Care:
If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: [http://www.counseling.ufl.edu/cwc](http://www.counseling.ufl.edu/cwc), and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)
Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or [http://www.police.ufl.edu/](http://www.police.ufl.edu/).

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. [https://lss.at.ufl.edu/help.shtml](https://lss.at.ufl.edu/help.shtml).

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. [https://www.crc.ufl.edu/](https://www.crc.ufl.edu/).

Library Support, [http://cms.uflib.ufl.edu/ask](http://cms.uflib.ufl.edu/ask). Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. [https://teachingcenter.ufl.edu/](https://teachingcenter.ufl.edu/).

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. [https://writing.ufl.edu/writing-studio/](https://writing.ufl.edu/writing-studio/).
