

CS 795/895: VEHICULAR NETWORKS

Spring 2007

TR 9:30-10:45 am

E&CS 2120

<http://www.cs.odu.edu/~mweigle/courses/cs795-s07/>

<http://www.cs.odu.edu/~mweigle/courses/cs895-s07/>

Instructor: Dr. Michele Weigle

Office: E&CS 3214

Office Hours: MW 2-3pm

Email: mweigle@cs.odu.edu

Web: <http://www.cs.odu.edu/~mweigle>

Phone: 683-6001 ext. 5050

Course Overview

This course will introduce vehicular ad-hoc networks (VANETs) and facilitate a discussion of issues involved in building VANETs. These issues include physical communications limitations, special characteristics of vehicular networks, possible applications (collision avoidance, incident notification, etc.), security, user privacy, and driver distraction. One goal of this class is to produce work suitable for submitting to the ACM International Workshop on Vehicular Ad Hoc Networks (VANET) to be held in Montreal in September.

Student responsibilities in the course will include reading papers, writing summaries, presenting topics, and leading a class discussion on those topics. Students will also be responsible for conducting a research project and writing a workshop-level paper on the project.

Prerequisites

The main prerequisite for this course is CS 455/555 – Intro to Networks and Communication.

It would be helpful to you (but not required) if you have also taken CS 752/852 - Wireless Communications and Mobile Computing and/or CS 772/872 - Network Security: Concepts, Protocols and Programming.

Course Materials

There is no official textbook for this course. We will be studying recent academic papers in the field of vehicular networks.

Academic Integrity

Please refer to the statement on academic integrity given below. Any evidence of cheating will result in a 0 grade for the assignment/exam, and the incident will be submitted to the department for further review.

By attending Old Dominion University you have accepted the responsibility to abide by the honor code. If you are uncertain about how the honor code applies to any course activity, you should request clarification from the instructor. The honor code is as follows:

"I pledge to support the honor system of Old Dominion University. I will refrain from any form of academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member of the academic community, it is my responsibility to turn in all suspected violators of the honor system. I will report to Honor Council hearings if summoned."

In particular, submitting anything that is not your own work without proper attribution (giving credit to the original author) is plagiarism and is considered to be an honor code violation. It is *not acceptable* to copy source code or written work from any other source (including other students), unless explicitly allowed in the assignment statement. In cases where using resources such as the Internet is allowed, proper attribution must be given.

Grading

Your grade in this class will be based on the following:¹

- Paper Summaries 10%
- Presentations 20%
- Discussion Participation 10%
- Final Project and Paper 40%
- Final Exam 20%

Our final exam is scheduled for Tuesday, May 1 at 8:30 am. The final will cover topics from the entire semester.

Grading Scale

The general grading scale is as follows (+ and – modifiers will be applied as appropriate):

90-100	A
80-89	B
70-79	C
0-69	F

Course Conduct

Attendance

I expect you to attend class and to **arrive on time**. If you have to miss a class, you are responsible checking the course website to find any assignments or notes you may have missed. Students may leave after 15 minutes if the instructor or a guest lecturer does not arrive in that time.

Late Assignment Policy

Any assignment submitted after its deadline is considered late. Assignments that are submitted within 24 hours after the original deadline are considered to be “one day late,” within 48 hours “two days late,” *etc.* Weekends count just like weekdays in determining the number of days late.

Five percent (5%) of the assignment’s total value will be deducted for each day an assignment is late. Assignments will not be accepted after they are more than 3 days late.

Email

Students should activate their Old Dominion e-mail accounts and check them every day. If a student chooses to have his/her messages forwarded to another account, it is the student's responsibility to take the necessary steps to have them forwarded.

Classroom Conduct

Please be respectful of your classmates and instructor by minimizing distractions during class. *Cell phones should be turned off during class.*

Make-ups

Make-ups for graded activities are possible *only* with a valid *written* medical or university excuse. It is the student’s responsibility to give the instructor the *written* excuse and to arrange for any makeup work to be done. A makeup exam may be different (and possibly more difficult) than the regularly scheduled exam.

¹ The percentages listed are only approximate and are subject to change (by no more than 10%).

Disability Services

In compliance with PL94-142 and more recent federal legislation affirming the rights of disabled individuals, provisions will be made for students with special needs on an individual basis. The student must have been identified, as "special needs" by the university and an appropriate letter(s) must be provided to the course instructor. Provision will be made based upon written guidelines from the university "special needs students" resource office. All students are expected to fulfill all course requirements.

Seeking Help

The course website should be your first reference for questions about the class. The schedule will be updated throughout the semester with links to assigned readings. Announcements and frequently asked questions (FAQ) will also be posted to the course website.

The best way to get help is to come to office hours. If you cannot make office hours, please send an email to setup an appointment.

I am available via email, but do not expect or rely on an immediate response.