

CSC 790 A
Multimedia Networks
T Th 9:30 - 10:45am Fall 2009

Instructor

Dr. Errin W. Fulp
office: 239 Manchester Hall
tele: 336.758.3752
email: fulp@wf.edu
web: <http://www.cs.wfu.edu/~fulp>

Course

Texts: (*all are optional*)
Multimedia Communications, Halsall
Internetworking Multimedia, Crowcroft, Handley, and Wakemann
Pocket Socket Guide: C Version, Donahoo and Calvert, (*if you can find it...*)

Articles:
Students will be required to read selected articles (and RFC's) concerning multimedia and computer networks. Materials will be available on the web or in the library. Students will be responsible for obtaining all assigned readings.
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Grading:

3 Tests	30%
Programs and labs	25%
Homework, reviews, and quizzes	15%
Final exam	30%

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Prerequisites: CSC 643, C++ programming, Unix.
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Attendance: Regular attendance of class and lab is expected.
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Tests, Quizzes, and the Final Exam: Three tests will be administered during class. The tests will cover the material from the assigned readings, lectures, and assignments. All tests and exams will be closed book. Make-up tests will be administered only for **University excused absences**.
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Homework and paper reviews: Homework and paper reviews will be assigned on a regular basis. Homework will always be due before class the following lecture. **No** late homework or paper reviews will be accepted.
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Programming and Lab Assignments: Programming and laboratory assignments will be done in Manchester 22 (network laboratory). Students must bring their text, lab assignment, and any assigned pre-lab to lab.
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Academic Integrity: All tests, programs, and homework must be done independently by each student. Copying of partial or complete work will not be tolerated and will be referred to the University Judicial System. Do not throw away or recycle any notes until the end of the semester. Should a question of authorship arise you will be expected to produce hand-written and printed documents that trace the development of your work.
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Disabilities and special accommodations: If you have a disability that may require an accommodation for taking this course, then please contact the Learning Assistance Center (758-5929) within the first two weeks of the semester.

**Lecture
Topics**

The following is the tentative lecture schedule for this course. Dates and topics may change during the semester!

Date	Lecture	Text
8/27	Introduction	
9/1	Multimedia communications	1, 2
9/3	Text and image representations	3
9/8	Audio representation	
9/10	Audio compression and video	4
9/15	Video compression	4
9/17	Video compression	4
9/22	Standards for multimedia communications	5
9/24	Test 1	
9/29	OSI model and network layers (last day to drop course 9/30)	6, 7
10/1	Network requirements for multimedia applications	
10/6	Quality of Service	
10/8	Quality of Service	
10/13	The Internet and socket programming	
10/15	The Internet and socket programming	9
10/20	Internet QoS and congestion control	9, 12
10/22	Test 2	
10/27	Internet QoS and Real Time Protocol	9, 12
10/29	Real Time Protocol	12
11/3	Real Time Protocol	12
11/5	Integrated and Differentiated services	9.8
11/10	Integrated services	
11/12	Differentiated services	
11/17	IP telephony, H.323, and SIP	
11/19	Test 3	
12/1	IP telephony, H.323, and SIP	
12/3	SIP and ENUM	
12/9	Final exam 9:00am	