

University at Buffalo, State University of New York

Fall 2009

CSE 534 – Introduction to Multimedia Systems

Course Syllabus

Instructor and Schedule:

Instructor: **Professor Chang Wen Chen**

Lecture Schedule: **Monday, Wednesday and Friday, 10:00-10:50AM**

Lecture Location: **88 ALUMNI**

Office: 318 Bell Hall; Phone: 645-3180 Ext 116; Email: chencw@cse.buffalo.edu

Office Hours: 11:00-13:00pm, Mondays and Wednesdays; Walk-in's are welcome

Instructor's Teaching Philosophy:

I believe the learning is maximized when the students are provided with an environment that encourages them to actively participate with the instructor to develop the ability to apply principles and generalizations already learned to new problems and applications as well as to acquire new knowledge. In this course, the active learning will be implemented through working with students on many fundamental design examples of multimedia communications to show how new knowledge are acquired using what one has already learned.

Course Objectives:

Upon completion of this course, students should understand basic design concepts and principles of multimedia processing, communication, and networking. The topics covered in this course include digital audio, image and video techniques and standards, such as: G.726, JPEG, MPEG, and H.264. In particular, each student is expected to select a project to work on using the techniques learned in the class to solve some practical multimedia communication problems. One preliminary report and one final project report are expected.

Prerequisites:

Graduate student standing

Resources:

Textbook: Ze-Nian Li and Mark S. Drew, *Fundamentals of Multimedia*, Prentice Hall, 2004 (ISBN 0-13-061872-1)

Website: <http://www.cs.sfu.ca/mmbook>

Grading:

Homework: 30%

Exams: 40%

Projects: 30%

Student Feedback Schemes:

Students may use office hours, email or anonymous means to voice their concerns on teaching style, course material, and classroom presentations.

Special Needs and Circumstances:

Students with special needs or circumstance should feel free to meet with or contact the instructor for help.

Academic Honesty and Professional Ethics:

Academic honesty is essential to the intellectual life of the university. Students who pass off as their own the answers, words, ideas or research findings of another person are guilty of academic dishonesty. In addition to such acts of cheating or plagiarism, any unauthorized possession of examinations, hiding of source materials, or tampering with grade records are acts of academic dishonesty specifically forbidden by the university rules.