COMP 5510, Networked Multimedia Systems

Credit hours: 3 lecture
Contact hours: 3 lecture

Catalog Description: Basic concepts, architecture and design of networked multimedia systems.

Prerequisites: COMP 4320 or departmental approval
Corequisites: None

Selected Elective Course (CSCI, SWEN, WIRS)

Instructor or Course Coordinator: Dr. Jeff Ku

Required Textbook

Reference Materials

Course Outcomes
The student will be able to
• apply concepts and techniques to networked multimedia system design.
• implement key components of networked multimedia systems.
• perform fundamental performance analysis on networked multimedia systems.

Topics Covered
• Multimedia Systems Primer (3 hours)
• Multimedia Systems Requirements (3 hours)
• Audio Technology (3 hours)
• Graphics and Images (3 hours)
• Video Technology (3 hours)
• Data Compression (6 hours)
• Resources and Quality of Service (3 hours)
• Multimedia Operating Systems (3 hours)
• Media Server (3 hours)
• Multimedia Networks and Protocols (9 hours)
• Synchronization (3 hours)
• Exams (3 hours)

Course Requirements
• Homework assignments (10%)
• Project (30%)
• Exams (60%)

Syllabus prepared: Spring 2016