Global Learning Semesters
Course Syllabus
Course: COMP-461 Multimedia Internet Applications II
Department: Computer Science
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary

Course Code	Course Title	Recommended Credit Hours
COMP-461	Multimedia Internet Applications II	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall, Spring	42	COMP-262 Multimedia Internet Applications
Department	**Level of Course**	**Language of Instruction**
Computer Science	Upper Division	English

Course Description

Multimedia content. Understanding popular video and audio formats. Preparing video and audio files. Multimedia and Internet. Popular protocols. Streaming content and firewalls. Availability and performance considerations. Media servers and Clients: how it works. Broadcasting versus multicasting.
Real Media components: Server, Encoder, Player. Preparing content. Real Media Server (Helix) configuration: publishing points, on-demand content, broadcasting, multi-cast groups.
Windows Media components: Server, Encoder, Player. Preparing content. Windows Media Server configuration: publishing points, on-demand content, broadcasting, multi-cast groups.
Scripting Streaming media clients and WEB design. <embed> and <object> tags. <Embed> versus <object>. Interactive Multimedia Applications. Macromedia Flash. Macromedia Shockwave. Application Design and deployment

Instructor

Dr Dmitri Apraksin

Course Aims and Objectives

Course designed to introduce students to advanced multimedia techniques on the Internet. Students are introduced to the concepts, techniques of Internet broadcasting and tools required for developing and deploying multimedia Internet solutions. Also, the course focuses on interactive WEB application design including multimedia techniques and Internet resources. Includes supervised structured laboratory exercises.

Teaching Methods

The course is delivered through a mixture of lectures, lab presentations, lab tutorials and practical exercises and assignments.

Course Teaching Hours

42 hours (21 hours lectures/presentations + 21 hours laboratory work). The course is delivered during the Fall and Spring semesters in 14-weeks (3 hours/week).

Evaluation and Grading

Assignments: 20%
Mid-Term: 30%
Final Exam: 50%

Readings and Resources

Required Textbook
M. Mosher and R. Shepard, Creating Web Graphics, Audio and Video, Prentice Hall, 2001, (ISBN: 0-13-086590-7