

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: GC 211 Web Motion Graphics III

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 96

BASIC SKILLS REQUIREMENTS: Computer literacy; Flash design; Web design

ENTRANCE REQUIREMENTS

PREREQUISITE: GC 209

COREQUISITE: none

RECOMMENDED PREPARATION: GC 202, GC 216

SCOPE OF COURSE:

Dynamic Web content - explore the creation of dynamic Flash presentations. Skinnable components and presentations. Incorporating server-side technologies: Flash as a front-end to a database; using Flash Communications Server and ColdFusion MX to enable rich internet application capabilities. Production of audio and digital video for Flash; integration of non-embedded media. CSU

SPECIFIC COURSE OBJECTIVES:

Review of: ActionScript concepts; use of Actions panel; client-server model; dynamic processes such as loadMovie() and dynamic and input text fields.

Getting and sending information: text files, XML files, CGIs, ASP & PHP; database.

Server-side and database integration via ASP, PHP, ColdFusion.

Production methods for creating digital audio and video for incorporation into Flash presentations.

Pre-caching audio MP3, Flash video FLV, and Flash SWF files in larger presentations.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

I. Review

A. ActionScript fundamentals

1. Symbols, Objects, Instances, Naming
2. ActionScript Syntax and Vocabulary
3. Actions panel

- B. Dynamic loading of content
 - 1. loadMovie(), loadMovieNum(), unloadMovie()
 - 2. attachMovie(), createEmptyMovieClip(), duplicateMovieClip(), removeMovieClip()
 - 3. loadVars()
 - C. Native audio and video encoding parameters
- II. Introduction to Dynamic Web presentations
- A. Components
 - 1. Component deconstructed
 - 2. Building a component
 - 3. Making a component skinnable
 - 4. Working with skinnable components
 - B. Dynamic text
 - 1. Dynamic text and ActionScript
 - 2. Reading text from text files
 - 3. Using the Date object
 - C. Skinnable presentations
 - 1. Introduction to skinnable presentations
 - 2. Creating skinnable presentations
- III. Server-side concepts
- A. The client-server model
 - B. CGIs
 - C. Server-side middleware: ASP, PHP, ColdFusion
 - D. Databases
 - E. Flash as a front-end to a database
- IV. Simple CGI
- A. Using formmail (or equivalent)
 - B. Using Flash to send email without email client
- V. Databases
- A. Review of GC216 concepts
 - 1. Connecting to a database
 - 2. Reading from a database
 - 3. Adding to a database
 - 4. Interacting with a database
 - 5. Creating a database
- VI. Dynamic Web presentations
- A. Connecting to a database
 - B. Reading from a database
 - C. Adding to a database
 - D. Interacting with a database
- VII. Digital audio and video production
- A. Introduction
 - B. Audio techniques
 - C. Video techniques
- VIII. Audio and video encoding
- A. Introduction
 - B. Audio settings
 - C. Video settings
 - D. Professional-grade audio/video encoding
 - E. Integrating audio/video assets
- IX. Caching/preloading segments of presentation

REQUIRED READING:

The required books have not been published. If new Flash MX versions are published, potential titles are:
Server-Side Flash MX, by Sanders/Winstanley (Flash 5 ISBN: 0764535986)
Flash MX Dynamic Content Studio, various (Flash 5 ISBN: 1903450063)

SUGGESTED READING:

ActionScript: the Definitive Guide (second edition), by Mook (Flash 5 ISBN: 1565928520)

REQUIRED WRITING:

None

OUTSIDE ASSIGNMENTS:

Students are to read/review handouts, study lecture/lab notes, complete lab and homework assignments.

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

INSTRUCTIONAL METHODOLOGY:**Check all that apply:**

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

60 % Assignments

30 % Final Project

10 % Participation

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes X No Number of times course may be taken for credit: 4

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 (d) (2) (A)

CONTACT PERSON: Lillian Payn

SIGNATURES ON FILE