Mathematics, Statistics & Computer Science Department

COURSE NO./TITLE: CS-143 COMPUTER PROGRAMMING FOR MULTIMEDIA II
CREDITS: 3

COURSE DESCRIPTION: Multimedia authoring techniques including behavior scripts, internet data access, dynamic sprite operations, and object-oriented scripting. Multimedia web techniques including design principles, site management, text, images, links, frames, sound, video, and cascading style sheets. Scripting techniques such as JavaScript, behaviors, forms, input validation, and applications.
Prerequisite: CS-142

TEXTBOOK: Dreamweaver MX, 1st Ed. by Belinksi; Introduction to Interactive Programming, 1st Ed. by Knuckles; and Besley Foundation Macromedia Flash MX 2004

COURSE OBJECTIVES: Upon completion of this course, students will be able to
1. Design and use generalized behavior scripts in multimedia presentations
2. Access Internet data from a script in a multimedia presentation
3. Write scripts to perform dynamic sprite operations
4. Write scripts that use dynamically created objects with overlapped operations
5. Describe the basic principles of web site design and web site management
6. Construct web pages with a variety of text, image, link, and frame styles
7. Design and use web productivity tools such as templates and library items
8. Write simple JavaScript code to support common web page operations (validation, etc.)
9. Incorporate digital sound and video clips in web pages
10. Design and use web forms to process user inputs using CGI scripts
11. Design and use cascading style sheets to enhance web page production

COURSE OUTLINE:
Part A – Advanced Multimedia Authoring
1. Generalized Behavior Scripts
2. Internet Data Access from Scripts
3. Advanced Scripting Control
4. Object-Oriented Scripting Techniques
Part B - Multimedia Techniques for the Web Environment
5. The web Development Environment
6. Overview of Web Design Principles (Site Organization, Usability, etc.)
7. Overview of Web Site Management
8. Simple Web Documents
9. Web Development Productivity Tools
10. Introduction to Web Page Scripting
11. Detailed JavaScript
12. Sound and Video Objects
13. Web Page Forms
14. Cascading Style Sheets

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