



CIS 1820

Division: Career and Technical Education

Department: Information Technology

Course: CIS 1820

Title: Web Site Application Development

Catalog Description:

This class teaches students the theory and programming techniques necessary to add scripting, animation, and programming enhancements to web sites. Students will have hands-on experience using applications such as Java, Perl, Visual Basic, GIF, Flash, Quick Time, and various scripting languages.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 3; Lecture: 3; Lab: 1

Clock/Hour Requirements: 60

Offered for Non-Credit: Yes

Prerequisites: CIS 1801 or CIS 1811 and a programming language course

Corequisites: N/A

Justification:

The skills required to create attractive, well-designed web pages with embedded scripting, animations, and other multimedia effects are in high demand.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

- understand the principles of Web scripting using JavaScript, Perl, and VB scripting languages
- understand the basic processes necessary to create and use animations using GIF, Flash, and Quick Time files
- understand the necessary operations to create and maintain applications on their web site.

Content:

Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- use scripting languages: JavaScript, Perl, VB Script

- building and implementing GIF animations into web pages
- implementing Flash and Quick Time media into web pages
- implementing business elements into web pages.

General Education Outcomes:

1) Read effectively, constructively, and critically.

Students will be required to read from the assigned text, reference manuals, and industry journals to retrieve, analyze, and synthesize information into design, repair, and troubleshooting situations.

2) Write clearly, informatively, and persuasively.

Students will be required to write response papers on the development of Information Technology and its impact on society. The papers will be reviewed and returned to the students with feedback for improvement.

4) Retrieve, evaluate, interpret, and deliver information through a variety of traditional and electronic media.

Students will utilize a variety of Internet resources to retrieve information for the completion of assignments. Instructors will provide feedback to students regarding the methods and tools utilized for these exercises.

5) Apply a cultural and historical awareness to a variety of phenomena.

Students will understand and discuss the historical aspects of IT development as well as the cultural implications of computer use and development in our society.

6) Apply computational skills to a variety of contexts.

Students will be required to utilize the binary, hexadecimal, and base-10 numbering systems in applying and managing screen display colors.

Key Performance Indicators:

Student Learning Outcomes will be assessed by two or more of the following Key Performance Indicators:

- lab exercises
- quizzes
- tests
- exam or project.
- subsequent classes where students are expected to be familiar with creating web documents for other classes, individuals, or businesses.

Representative Text and/or Supplies:

- To be chosen from the best texts available in print just prior to the semester that the class is offered.

Optimum Class Size: 15

Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

Michael P. Medley, MBA, Assistant Professor

I hereby find this course consistent with the goals and resources of the Information Technology Department:

Michael P. Medley, MBA, Assistant Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)