CIS 1820

Division: Career and Technical Education
Department: Computer Information Systems
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: 0
Clock/Hour Requirements: 45
Offered for Non-Credit: No
Prerequisites: CIS 1801 or CIS 1811 and a programming language course

Corequisites: None

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 are required to write response papers on current topics in the IT industry. These papers are reviewed and returned to students for improvement.

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

Students will research technical issues through the internet, industry journals, and reference manuals.

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

Students will be aware of the changing nature of the computer field and how it impacts use of dated software with newer and older hardware. An awareness of the history and development of computers is a must for professional preparation.

6) Apply computational skills to a variety of contexts.

Students will be required to utilize the binary, hexidecimal, and base-10 numbering systems in situations such as network addressing and screen display colors.

Key Performance Indicators:

In class:

- Student grades will be based on a combination of lab exercises (5-25%), quizzes (5-25%), tests (10-50%), and a final exam or project (20-50%).

Following class:

- Post evaluation will be measured by subsequent classes and being able to create 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:

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

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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:

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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:

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

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)