INTRODUCTION TO INTERNET SOFTWARE DEVELOPMENT
CSIT 2230

Class Hours: 2.0
Laboratory Hours: 2.0
Credit Hours: 3.0
Revised: Fall 2013

Instructor: [Redacted]
Office: [Redacted]
Phone: [Redacted]
Email: [Redacted]

Catalog Course Description:
The history, growth and use of the internet are explored, and major internet protocols are discussed. Students use CSS, Java Script, Perl, PHP and other techniques to create dynamic Web content.

Entry Level Standards:
The entering student should have familiarity with Windows OS and should be able to type at least 28 words per minute.

Prerequisites: CSIT 1520

Textbooks and Other Course Material:
None required. Online and library resources will be utilized.

WEEK/TOPIC BASIS:

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<td>jQuery - Basics and Effects</td>
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COURSE GOALS:

The course will:

A. Enhance student understanding of the history of computer technology (particularly communication technology) and the role it plays in daily life. (II, III, X)

B. Provide students with an understanding of the use of Cascading Style Sheets. (II, III)

C. Introduce students to the JavaScript programming language. (II, III)

D. Provide students the information they need to understand and create programs using the Document Object Model (DOM), the primary data structures underlying web pages. (I, II, IV, V, VI)

E. Enhance student ability to create evocative web pages by showing how to create dynamic documents using JavaScript to access and manipulate the DOM. (I, II, IV, VI, VII, VIII, IX, XII)

F. Introduce jQuery and provide students with an understanding of its use as a in creating animations and manipulating the Document Object Model. (I, II, III, IV, VI, IX).

I. Introduce students to programming in the PHP language and reveal its ease of use in the web environment. (I, II, IV, V, VI, VII)

J. Provide students with an understanding of the Ajax technology for building programs requiring asynchronous web communication. (I, II, IV, V, VI, VII)

L. Provide students with a current state of the art overview of the field of web development and enough hands-on practice with currently used tools to allow students to begin earning money in the field after successful integration of the course material. (II, III, IV, X, XI, XII)

*Roman numerals after course objectives reference goals of the CSIT program (Career Program Goals and General Education Goals are listed http://www.pstcc.edu/departments/curriculum_and_instruction/syllabi/)

III. EXPECTED STUDENT LEARNING OUTCOMES:

Student will be able to:

1. Intelligently discuss the history of computer technology with emphasis on communication technologies. (A)
2. Create a web page using only a text editor and browser. (A)
3. Know how to use HTML effectively and how to design a decent web page. (A)
4. Use Cascading Style Sheets (CSS) and define the style of individual HTML tags, sets of tags, or groups of pages. (A,B)
5. Create complex programs using the JavaScript language. (A, B, C)
7. Use JavaScript to access the Document Object Model and add or modify objects. (A, B, C, D)
8. Understand the basics of the PHP language and its use in creating web applications. (I)
9. Use PHP to create a simple web program. (A, B, C, D, E, F, I)
10. Understand the use of Ajax for asynchronous communication. (J)
11. Create a simple Ajax web program that performs asynchronous communication. (A, B, C,
D, E, F, J)
12. Intelligently discuss the current state of the art in web-based computer programming at a high level and understand in detail the tools used in the class. (A, B, C, D, E, F, G, H, I, J, K, L)

*Capital letters reference the course goals listed above.

IV. EVALUATION:

A. Testing Procedures: 30% of grade
   3 exams @ 100 points each = 300 total points

B. Laboratory Expectations: 70% of grade
   12 laboratory assignments = 700 total points

D. Other Evaluation Methods:
   This information, if applicable, will be .

E. Grading Scale:
   A   > 900
   B   800-899
   C   700-799
   D   600-699
   F   < 600

V. POLICIES:

A. Attendance Policy:
Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which the course was taken. If further action is warranted, the appeal may be addressed to the vice president of Academic Affairs.

B. Academic Dishonesty:
   Academic misconduct committed either directly or indirectly by an individual or group is subject to disciplinary action. Prohibited activities include but are not limited to the following practices:
   - Cheating, including but not limited to unauthorized assistance from material, people, or devices when taking a test, quiz, or examination; writing papers or reports; solving problems; or completing academic assignments.
· Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting published or unpublished work of another person, including online or computerized services, without proper documentation of the original source.
· Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared by another person or agency that sells term papers or other academic materials to be presented as one’s own work.
· Taking an exam for another student.
· Providing others with information and/or answers regarding exams, quizzes, homework or other classroom assignments unless explicitly authorized by the instructor.
· Any of the above occurring within the Web or distance learning environment.

C. Computer Usage Guidelines:
College-owned or -operated computing resources are provided for use students of Pellissippi State Community College. All students are responsible for the use of Pellissippi State's computing resources in an effective, efficient, ethical and lawful manner. It is each individual user's responsibility to abide by the policy available at www.pstcc.edu/ppm/pdf/08-13-05.pdf

D. Accommodation for Disabilities:
Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 127, 132, 134, 135, 131 or by phone: 539-7153 or TTY 694-6429. More information is available at http://www.pstcc.edu/sswd/.