INTRODUCTION TO INTERNET SOFTWARE DEVELOPMENT
CSIT 2645

Class Hours: 3.0  Credit Hours: 4.0
Laboratory Hours: 3.0  Revised: Fall 09

NOTE: This course is not designed for transfer credit.

Catalog Course Description:

The history, growth and use of the Internet are explored, and major Internet protocols are discussed. Students use HTML and other technologies to create their own Web pages. Students work individually and in teams to create Web sites using dynamic HTML techniques in conjunction with content management systems.

Entry Level Standards:

The entering student should have a familiarity with the DOS PC operating system and the Windows environment. The entering student should be able to type at least 23 words per minute with 5 or fewer errors.

Prerequisites:

One programming course

Textbook(s) and Other Course Materials:


I. Week/Unit/Topic Basis:

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<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction and History</td>
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<td>2</td>
<td>Cascading Style Sheets</td>
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<td>3</td>
<td>JavaScript</td>
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<td>4</td>
<td>Document Object Model</td>
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<td>5</td>
<td>Exam 1</td>
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<td>6</td>
<td>Dynamic Documents</td>
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<td>XML</td>
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<td>8</td>
<td>Perl Basics</td>
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<td>9</td>
<td>CGI with Perl</td>
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<td>10</td>
<td>Exam 2</td>
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II. Course Objectives*:

A. Discuss the history of the Internet, its current state and its potential future direction. I, II, III, IV, XI

B. Expand their worldview to include man's artificial creations as a natural part of the evolutionary process. I, II, III, X, XI, XII

C. Demonstrate mastery of basic web development technologies. I, II, III, IV, V, VI, VII, IX, X, XI, XII

D. Develop an understanding of advanced web development technologies. I, II, III, IV, IX, XI, XII

E. Create web sites that incorporate the information gained in the course. I, II, IV, V, VI, VII, IX, XI, XII

*Roman numerals after course objectives reference goals of the CSIT program.

III. Instructional Processes*:

Students will:

1. Write reports, make at least one class presentation, and maintain a course web site. *(Communication Outcome)*

2. Work to deadlines and schedules, and be encouraged to improve study and learning skills *(Active Learning Strategies)*

3. Learn and apply web development techniques, apply these skills to novel problem situations, and participate in a team project. *(Technological Literacy Outcome)*

4. Discuss the impact of, and social issues related to, the Internet. *(Social/Behavioral Sciences Outcome)*

5. Learn about the hardware and software utilized in the creation of web sites. *(Technological Literacy Outcome)*

6. Effectively utilize the library and other sources of research to create reports and web pages. *(Technological Literacy Outcome)*

*Strategies and outcomes listed after instructional processes reference TBR’s goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*:
Upon successful completion of this course, the student should be able to:

1. Demonstrate knowledge of the history of the Internet as well as its social and political implications. (A)
2. List and discuss the primary technologies used in web development. (A)
3. Discuss how the Internet can be viewed as an extension of the evolutionary process. (B)
4. Create websites that include HTML, JavaScript, Cascading Style Sheets, Perl, PHP, Content Management Systems and other technologies. (C)
5. Incorporate BLOGs, discussion boards, picture galleries and other components into a website. (D)
6. Create and modify web sites throughout the semester that incorporate the skills and knowledge gained through the course. (E)
7. Participate in a series of broad ranging discussions concerning the multifaceted implications of the Internet. (A, B, C, D, E)

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures:

Three exams will be given during the semester. Each exam will count for 100 points toward the final grade. There will be no make-up tests unless prior arrangements have been made with the instructor.

Plagiarism, cheating, software piracy, non-educational use of computer systems and other forms of academic dishonesty are strictly prohibited.

B. Laboratory Expectations:

Lab assignments will be made during the course of the semester. A late penalty will be imposed on any overdue assignment. Failure to satisfactorily complete all labs may result in a grade of F in the course. A syllabus addendum will detail the labs and their contribution to the course grading scheme.

C. Field Work:

N/A

D. Other Evaluation Methods:

Class participation, quizzes and homework will also comprise the final grade for the course.

E. Grading Scale:

\[
\begin{align*}
93 - 100 & \quad \text{A} \\
88 - 92  & \quad \text{B+} \\
83 - 87  & \quad \text{B} \\
78 - 82  & \quad \text{C+} \\
73 - 77  & \quad \text{C} \\
65 - 72  & \quad \text{D}
\end{align*}
\]
VI. Policies:

A. Attendance Policy:

Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. [NOTE: No differentiation is noted for excused/unexcused absences. These will be treated as an absence.] (Pellissippi State Online Catalog)

B. Academic Dishonesty:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (Pellissippi State Online Catalog)

C. Accommodations 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 134 or 126 or by phone: 694-6751 (Voice/TTY) or 539-7153. More information is available at www.pstcc.edu/departments/swd/.

D. Other Policies:

Computer Usage Guidelines:
College-owned or -operated computing resources are provided for use by students of Pellissippi State. All students are responsible for the usage of Pellissippi State’s computing resources in an effective, efficient, ethical and lawful manner. (Pellissippi State Online Catalog)

Make-Up Work:
Students are expected to promptly attend all lecture and lab classes as assigned. If a class is missed, student must make up all work and get notes and/or handouts.

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