Description
This course introduces basic concepts of the Internet and World-Wide Web. Students will learn how to create web pages with HTML, and use JavaScript for dynamic effects. Major topics include the roles and operation of web browsers and servers, including interacting with web applications through forms; and the separation of formatting and logical structure in HTML documents, stylesheets, and the basic principles of effective interface design for the web.

Readings

Note
The schedule and other information in the syllabus is subject to change. Consult the course web site for the most up-to-date information.

Resources
Each student at DePaul is assigned an account on the students.depaul.edu server, also known as shrike. We will use this server for publishing pages on the Web, therefore be sure to verify your password as soon as possible. You may get it at the ID Office (DePaul Center 9700 or SAC 182) if you don't know it. Information such as lecture notes and assignments can be found on the course web site. I will try to have slides available 24 hours in advance of class, but I cannot guarantee it.

Assessment
Student progress will be assessed through a combination of regular homework assignments, quizzes and a final portfolio:

- Homework (8) – 30%
- Quizzes (5) – 30%
- Portfolio – 30%
- Participation – 10%

The portfolio will consist of all homework assignments submitted during the quarter, revised according the instructor's comments. More information about the portfolio will be made available in class. The participation grade will be based on attendance and engagement in classroom activities and discussion.

Grading will performed with the following three-part rubric:

- Knowledge: An assignment/exam/project should demonstrate that the student has the expected technical knowledge.
• Reasoning: Assignments should demonstrate that the student can reason appropriately and solve problems.
• Communication: Written work should communicate effectively, and work products such as programs or other artifacts should display good style and documentation.

Grades will be awarded as follows:
A: Excellent work. Demonstrates thorough knowledge of the subject matter, going beyond what is covered in class. Contains well-considered and creative solutions to problems. Well-written answers and/or employment of impeccable coding style.
B: Very good work. Demonstrates complete knowledge of the subject matter based on coverage in class and textbook. No major errors of reasoning in problem solutions. Competent written answers and readable coding style.
C: Average work. Some gaps in knowledge of subject matter. Some errors or omissions in problem solving. Written answers may contain grammatical and other errors; coding may be stylistically awkward.
D: Below average work: Substantial gaps in knowledge of subject matter. Problem solving incomplete or incorrect. Poor English in written answers; ineffective coding style.

Tentative Schedule

9/8: Introduction
Introduction to the course. Access to web servers using FTP and Telnet.
Reading: Reed, Ch. 1
Assigned: Homework #1: Publishing to Shrike

9/13: Lab: Using the Internet
Hands-on use of tools for the course: FTP, WinZip, Telnet.
Reading: Reed, Ch. 3

9/15: HTML
Basic HTML tags and structures. Lists. Anchors. Tables.
Reading: Reed, Ch. 2
Due: Homework #1
Assigned: Homework #2: Course web page

9/20: JavaScript
Dynamic web pages. Introduction to JavaScript. Variables.
Reading: Reed, Ch. 4
Quiz #1: HTML

9/22: Style
Cascading style sheets. Internal and external style declarations. Colors and fonts.
Reading: TBA
Due: Homework #2
Assigned: Homework #3: Multi-page style

9/27: Lab: Style
Working with style sheets.

9/29: Data Types
JavaScript data types and operators. Expressions. Debugging.
Reading: Reed, Ch. 5 (6 optional)
Due: Homework #3
Assigned: Homework #4: JavaScript page
10/4: Functions
User-defined functions. Parameters and local variables.
Reading: Reed, Ch. 7
Quiz #2: JavaScript and style

10/6: Algorithms
Algorithm design and analysis. Pseudocode. Example algorithms.
Reading: Reed, Ch. 8
Due: Homework #4

10/11: Events and Forms
Event-driven programming. HTML forms. Associating actions with interface components.
Reading: Reed, Ch. 9
Assigned: Homework #5: Forms

10/13: Lab: Forms
Working with HTML forms and events.

10/18: User-centered Design
Designing and evaluating user interfaces. Basic user-centered design process. Prototyping.
Reading: TBA
Due: Homework #5
Assigned: Homework #6: User-centered design

10/20: Conditionals
Conditionals and conditional execution. Boolean expressions.
Reading: Reed, Ch. 11
Quiz #3: Forms

10/25: Iteration
Looping. While and for constructs.
Reading: Reed, Ch. 13
Due: Homework #6
Assigned: Homework #7: Loops

10/27: Data Representation
Binary numbers. Internal representation of basic data types.
Reading: Reed, Ch. 12
Quiz #4: Conditionals and Loops

11/1: Strings
The String data type. String manipulation and string operators.
Reading: Reed, Ch. 15 (14 optional)
Due: Homework #7

11/3: Arrays 1
Arrays as objects. Arrays of strings and integers.
Reading: Reed, Ch. 17
Assigned: Homework #8: Strings and Arrays

11/8: Arrays 2
Algorithms with arrays. Multi-dimensional arrays.

11/10: Advanced HTML
Layers and positioning.
Reading: TBA
Due: Homework #8

11/15: Advanced JavaScript
Document object model. Document manipulation and dynamic HTML.
Reading: TBA
Quiz #5: Strings and Arrays

11/22: Portfolios due
Due: Course portfolios due (12 midnight)

**Policies**

Students are expected to attend all classes and participate in in-class exercises. Class will start promptly at 11:50 am. Students are individually responsible for material they may have missed due to absence or tardiness.

Exams can only be made up with a serious documented excuse (e.g. illness, death in the family). A make-up quiz must be arranged as soon as possible and always before the student attends the next class meeting. Arrangements involving other excuses require prior permission from the instructor.

Assignments will be posted online on the Shrike server and should also be submitted in ZIP format to the Course On-Line site. Do not submit assignments by email. **All assignments should be completed and submitted by class time on the due date.** Late assignments will be accepted up to two days after the due date with a 10% penalty per day. The final portfolio may not be submitted late.

Assignments must represent a student's individual effort. While students are permitted to discuss assignments at the conceptual level, under no circumstances should students share specific answers (electronically or otherwise). You may also not use JavaScript or HTML code within an assignment or project unless that code was developed by you, the only exception being when given specific permission by the instructor to do so.

In this course, you are NOT permitted to use any HTML editing application beyond a simple text editor. Applications such as FrontPage, Dreamweaver, etc. are not permitted. The purpose of this course is to learn the HTML details that a sophisticated editing application hides from you.

**School Policies**

**Online Instructor Evaluation**
Course and instructor evaluations are critical for maintaining and improving course quality. To make evaluations as meaningful as possible, we need 100% student participation. Therefore, participation in the School’s web-based academic administration initiative during the eighth and ninth week of this course is a requirement of this course. Failure to participate in this process will result in a grade of incomplete for the course. This incomplete will be automatically removed within seven weeks after the end of the course and replaced by the grade you would have received if you had fulfilled this requirement.

**Email**
Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at http://campusconnect.depaul.edu/ is correct.

**Plagiarism:**
The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course
requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

**Incomplete:**
An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the School of Computer Science, Telecommunications and Information Systems. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.