Course Description

PROG 109 introduces fundamental programming and mark-up techniques for the Web. Students design procedures and write computer instructions to solve business related problems with a focus on simple applications or games. Students learn procedural programming, develop user interfaces, and work with events and objects. The class will teach client-side web development fundamentals.

Instructor: Ron Austin

Email: ron.austin@bellevuecollege.edu

Office: Hours: By appointment

Class Time: T/Th 3:00-5:10p A132

Outcomes:

Develop a basic interface with html and CSS

Develop a web page with a text-editor, Visual Studio, and/or Dreamweaver

Code event-driven procedures

Use repetition structures

Create functions and procedures

Apply accepted programming standards

Design a web form

Understand and use common programming terms

Understand and use general programming techniques

Test and debug a web application/web page

Demonstrate an understanding of the document object model

Materials and Required Text Books:

Initially we will use a text editor, such as Notepad to code our work. As the quarter progresses we will use an application such as Visual Studio and/or Dreamweaver CS5.5. We may also use an image editor to help develop web-based images. We will be testing our pages on a variety of browsers including IE 8, IE 9, and Firefox 3.5+. During class we will be using a PC with a current version of Windows.

The following books are available for free viewing at **books 24x7**. This can be found through your myBC home page. It is my understanding that the books are available in limited quantity at the BC Bookstore.

Beginning HTML, XHTML, CSS, and Javascript

Jon Duckett

Wiley Publishing, Inc. 2010

(available on MyBC Books 24x7)

REQUIRED

Javascript for Absolute Beginners

Terry McNavage

Apress, 2010

(available on MyBC Books 24x7)

REQUIRED

Grading: Total Points: 500

Assignments 200 points total (40% of grade)

There will be three assignments that will take about 1-2 weeks to complete.

Class Projects: 50 points (10% of grade)

There will be about seven short class projects. Projects will be 5-10 points.

Tests: 200 points (40% of grade)

There will be two tests during the quarter.

Participation: 50 points (10% of grade)

Participation is based on attendance, submitting work on time, and behavior. If you are absent three times, then you lose 5 points for each additional absence.

Final Grading (percent of 500 points)

93-100%=A

90-92=A-

88-89=B+

83-87=B

80-82=B-

78-79=C+

73-73=C

70-72=C-

65-69=D

(percentages less than 65% will receive an F)

Student Behavior

Politeness and professional behavior are expected in class. Copyright and Plagiarism: If you are found to have cheated or copied for any assignment or exam you will forfeit your grade for the assignment. You also risk receiving a failing grade for the course.

Submitting Assignments

Assignments and projects will normally be emailed to the instructor. Grades and comments will normally be returned by email.

Late Work

Assignments and projects submitted late will be graded down 15% automatically. Assignments will not be accepted later then three days after the due date. You are responsible for backing up your own work.

Student Services

Disability Resource Center: Location B132, Phone 425-564-2498

Counseling Center: Location B234, Phone 425-564-2212

Student Programs: Location C212, Phone 425-564-6150

Many other services are available to students. These are listed at:

http://bellevuecollege.edu/resources/services/

Class Calendar

Week 1 9/18	Introduction to XHTML and structuring documents for the Web. Basic links and page layout. Reading: Beginning HTML, Chapter 1
Week 2 9/25	Navigation, images, color management. Reading: Beginning HTML, Chapter 2 & 3
Week 3 10/2	html forms and tables. Reading: Beginning HTML, Chapter 4 & 5
Week 4 10/9	Text, font, and CSS overview. Reading: Beginning HTML, Chapter 7
Week 5 10/16	Page layout with CSS. Design Issues. Reading: Beginning HTML, Chapter 8 & 9
Week 6 10/23	Introduction to Javascript. Reading: Javascript for Beginners, Chapter 1

Week 7 10/30	Syntax, statements, variables, data. Reading: Javascript for Beginners, Chapter 2 & 3
Week 8 11/6	Javascript programming, Programming flow, and events. Reading: Javascript for Beginners, Chapter 4
Week 9 11/13	Functions and the Document Object Model. Reading: Javascript for Beginners, Chapter 6
Week 10 11/20	HTML 5 and More Advanced Javascript Reading: Javascript for Beginners, Chapter 5&7
Week 11 11/27	Introduction to Javascript libraries and HTML 5. Reading: Javascript for Beginners, Chapter 8
Week 12 12/4	Final projects and quiz.

Other Important Dates Quarter ends: December 7th (last PROG 109 on campus class is December 6th) College closed: October 9th, October 26th, November 12th, November 22nd, November 23rd. Final exams: December 5-7 (PROG 109 final exam will be December 6th)

Note that the instructor reserves the right to modify the schedule and syllabus as needed. Notifications for modifications to the syllabus will normally be provided to students.