

OA 2095 - Web design

3 Credits, 75 Hours (3-0-2)

Instructor:

Bruce Macdonald

Office: C302

Telephone: 539-2016(w)
402-8583(h)

E-Mail: bmacdonald@gprc.ab.ca

Classroom:

A313

Times:

Tues., Thurs. and Fri. 14:30 - 15:50

COURSE DESCRIPTION:

This is an entry-level course where students learn to hand-code static web sites. The course has three modules. In the first module, students learn strict XHTML. Each student uses it to build a plain, un-styled web site, which is validated and then published on the World Wide Web. The second module introduces Cascading Style Sheet Language. All of the properties in the CSS1 specification are covered. Students apply what they learn to their own websites, keeping their style and content separate. The third module covers CSS positioning, and some other properties from the CSS2 specification. It also introduces html forms, with all of the form controls. It stops short of covering what happens to forms after they are submitted. To learn that, the student would take the next course, OA2096 -Advanced Web Design.



BASIS:

The basis for this course is to start at the entry-level, and learn how to author web sites from scratch, following strict international standards. The reason for this is that such web sites are better structured, more efficient, and easier to manage. Also, because the newest standards are xml based, these web sites can be targeted to other types of user agents, such as hand-held devices, braille readers, voice browsers, printers, and so on.

No prior experience in html is needed. In fact, if you have never used html before you are better off, because you will have no bad habits to break. A lot of the old html has been deprecated, and every element now has a very specific functional purpose. Anything that has to do with visual appearance is now handled with style sheets.

PREREQUISITES:

None.

GENERAL OBJECTIVES:

1. Students will be able to use text editors, browsers, and ftp software.
2. Students will be able to design and hand-code static web sites that are compliant with W3C recommendations for XHTML 1.0 Strict and CSS:

RESOURCE MATERIALS:

The following textbook is assigned for this course:

Lie, H.W. and B. Bos, 1999, *Cascading style sheets. Designing for the web. 2nd Ed.*. Addison-Wesley, Don Mills, Ontario, 396 pp., ISBN No. 0-201-59625-3.

This text will be used more as a reference, rather than like a traditional textbook. The same book will be used for the next course in Web Design as well (OA 2096). Once you learn how to use it, you will find it

to be a valuable resource for years to come.

Another valuable reference is the W3C specifications. The W3C provides free access to online references and to their specifications.

- The W3C Specification for XHTML 1.0 is available at <http://www.w3.org/TR/xhtml1>
- The W3C Specification for HTML 4.01 is available at <http://www.w3.org/TR/html401>
- The W3C Specification for CSS Level 1 is available at <http://www.w3.org/TR/REC-CSS1>
- The W3C Specification for CSS Level 2 is available at <http://www.w3.org/TR/REC-CSS2>

You can access the above references online at any time. The W3C also provides the above specifications in Adobe portable document format (.pdf). You will need the Adobe Acrobat Reader to read that format. It is a free download from Adobe. It is very useful for managing long documents like these. I will provide links to each of these downloads at the appropriate time.

DELIVERY MODE:

The course is delivered live in computer lab A313 in the fall semester and the lecture notes are available online. The content is divided into three five-week modules: Each module contains 9 lessons. During each module, each student will develop a web site. It will be uploaded to the college server for evaluation. There will also be an online test at the end of each module.

COURSE CONTENT:

Module 1 - Basic Structure

- 1.1 Background on HTML
- 1.2 Page Structure - the basic tags
- 1.3 Headings, Paragraphs and Lists
- 1.4 Links, Anchors and URLs
- 1.5 Tables
- 1.6 Misc. tags and Special Characters
- 1.7 The Img element and its attributes
- 1.8 Background Sound and Linking to External non-HTML Files

Module 2 - Applying Styles

- 2.1 Background on CSS
- 2.2 Approaches to CSS
- 2.3 Introduction to CSS Properties
- 2.4 CSS Units and Values, Text Properties
- 2.5 Font Properties
- 2.6 Background and Color Properties
- 2.7 The Box Model - Margin and Padding Properties
- 2.8 The Box Model - Border Properties
- 2.9 The Float and Clear Properties

Module 3 - Forms and Positioning

- 3.1 Introduction to HTML Forms
 - 3.2 HTML Forms, continued
 - 3.3 Button on Forms
 - 3.4 Introduction to CSS Positioning
 - 3.5 CSS Positioning, Continued
 - 3.6 Three Dimensional Positioning
 - 3.7 Browser Problems with Positioning and Sizing
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GRADING SYSTEM

GPRC uses a letter grade system as explained on page 33 of the College calendar. On a percentage basis, I will assess your performance as follows:

Module 1	Web Site Assignment	20
	Module Test	20
Module 2	Web Site Assignment	15
	Module Test	15
Module 3	Web Site Assignment	15
	Final Test	15

TOTAL: 100

I will translate your weighted average into a letter grade as follows:

Weighted Average %	Letter Grade
94 - 100	A+
90 - 93	A
85 - 89	A-
80 - 84	B+
76 - 79	B
72 - 75	B-
68 - 71	C+
64 - 67	C
60 - 63	C-
55 - 59	D+
50 - 54	D
0 - 49	F