



Broward Community College

Course Outline

COMMON COURSE CODE NUMBER: GRA 1721C

COURSE TITLE: Web Programming

CREDIT HOURS: 3

CONTACT HOURS BREAKDOWN:

Lecture/Discussion: 32

Lab 32

Other _____

Contact Hours/Week 64

CATALOG DESCRIPTION:

Prerequisite: None

Co-requisite: None

The student will learn the basics of creating a web site and will progress through the processes of analysis, design, development and implementation of complete web sites using HTML language with text editors and WYSIWYG web editors. This course includes: Introduction to the WWW, Web Programming with HTML, layout and structure of web sites, hyperlinks, multimedia, forms, frames, testing, maintenance and uploading web sites to servers.

UNIT TITLES:

1. Defining and discussing World Wide Web and Web browsers on the Internet, versions of HTML, and identifying the tools for creating HTML pages.
2. Creating an HTML page.
3. Adding special characters, lines, and graphics.
4. Creating a hypertext document and links between documents.
5. Linking to other documents on the Internet.
6. Designing web pages with graphical elements.
7. Designing web pages with tables.
8. Designing web pages with frames.
9. Designing web pages with forms.
10. Designing web pages with cascading style sheets.
11. Designing web pages with multimedia elements.
12. Using WYSIWYG editors to create web pages.

LAST REVIEW Academic Year 2004-2005 **NEXT REVIEW** Academic Year 2009-2010



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I. Course Overview:

Upon completion of this course, the student should be able to conceptualize and develop HTML web sites.

II. Units:

Unit 1. **Defining and Discussing World Wide Web and Web browsers on the Internet, Versions of HTML and Identifying the Tools for Creating HTML Pages.**

General Outcome:

- 1.0 The student should be able to define and discuss World Wide Web and Web browsers on the Internet, versions of HTML, and identify the tools for creating HTML pages.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 1.1 Define World Wide Web and web sites.
- 1.2 Discuss Web browsers on the Internet.
- 1.3 Discuss versions of HTML.
- 1.4 Identify the tools for creating HTML pages.



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Unit 2. Creating an HTML Page.

General Outcome:

2.0 The student should be able to create an HTML page.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 2.1 Identify HTML syntax.
- 2.2 Create basic HTML tags.
- 2.3 Create headers, paragraphs, and lists with tags.
- 2.4 Display HTML page in browsers.
- 2.5 Edit HTML pages.



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Unit 3. Adding Special Characters, Lines, and Graphics.

General Outcome:

3.0 The student should be able to add special characters, lines, and graphics.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 3.1 Add special characters to an HTML page.
- 3.2 Add lines to an HTML page.
- 3.3 Add graphics to an HTML page.



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Unit 4. Creating a Hypertext Document and Links between Documents.

General Outcome:

- 4.0 The student should be able to create a hypertext document and links between documents.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 4.1 Define hypertext.
- 4.2 Create anchors in a hypertext page.
- 4.3 Create links in a hypertext page.
- 4.4 Define web page structures (linear, hierarchical, and mixed).
- 4.5 Create links between web pages.
- 4.6 Create links between sections of web pages.



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Unit 5. Linking to other Documents on the Internet.

General Outcome:

5.0 The student should be able to link to other documents on the Internet.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 5.1 Link web pages with absolute and relative pathnames.
- 5.2 Link to other objects on the Internet.
 - 5.2.1 Ftp servers.
 - 5.2.2 Usenet News.
 - 5.2.3 E-mail.



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Unit 6. Designing Web Pages with Graphical Elements.

General Outcome:

6.0 The student should be able to design web pages with graphical elements.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 6.1 Add color to web pages.
 - 6.1.1 Change font color.
 - 6.1.2 Change background color.
 - 6.1.3 Add background graphic.
- 6.2 Insert GIF graphics into web pages.
 - 6.2.1 Insert Interlaced and Noninterlaced GIFs
 - 6.2.2 Insert Transparent GIFs.
 - 6.2.3 Insert Animated GIFs.
- 6.3 Insert JPEG graphics into web pages.
- 6.4 Adjust images.



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Unit 7. Designing Web Pages with Tables.

General Outcome:

7.0 The student should be able to design web pages with tables.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 7.1 Define a table structure.
- 7.2 Use table tags to create tables.
- 7.3 Modify appearance of tables.
- 7.4 Change table and text alignment.
- 7.5 Change table cell and column sizes.
- 7.6 Span rows and columns.
- 7.7 Control page layout with tables.
- 7.8 Create nested tables.



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Unit 8. Designing Web Pages with Frames.

General Outcome:

8.0 The student should be able to design web pages with frames.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 8.1 Identify web pages with frames.
- 8.2 Create a frame layout.
- 8.3 Control appearance of frames.
- 8.4 Work with frames and hypertext links.
- 8.5 Use magic target names.
- 8.6 Create floating frames.
- 8.7 Create frames web sites.



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Unit 9. Designing Web Pages with Forms.

General Outcome:

9.0 The student should be able to design web pages with forms.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 9.1 Identify web pages with forms.
- 9.2 Create an online form with tags.
- 9.3 Work with Input boxes.
- 9.4 Create a selection list.
- 9.5 Work with radio buttons.
- 9.6 Work with check boxes.
- 9.7 Create text areas.
- 9.8 Create form buttons.
- 9.9 Create image fields.
- 9.10 Create mailto actions.



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Unit 10. Designing Web Pages with Cascading Style Sheets.

General Outcome:

10.0 The student should be able to design web pages with cascading style sheets.

.Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 10.1 Identify web pages with style sheets.
- 10.2 Use inline styles.
- 10.3 Create embedded styles.
- 10.4 Use external style sheets.
- 10.5 Identify style precedence.
- 10.6 Set font and text attributes.
- 10.7 Apply color and background attributes.
- 10.8 Apply list styles.
- 10.9 Format hypertext links.



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Unit 11. Designing Web Pages with Multimedia Elements.

General Outcome:

11.0 The student should be able to design web pages with multimedia elements.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 11.1 Identify web pages with multimedia elements.
- 11.2 Define sound sampling rates.
- 11.3 Link to a sound file.
- 11.4 Embed a sound file.
- 11.5 Define video frame rates and codecs.
- 11.6 Link to a video file.
- 11.7 Embed video file.



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Unit 12. Using WYSIWYG editors to create web pages.

General Outcome:

12.0 The student should be able to use WYSIWYG editors to create web pages.

Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 12.1 Identify WYSIWYG editors.
- 12.2 Use WYSIWYG editors to create web sites.
- 12.3 Publish web pages to servers.