

Apogee Program Session 1 Introduction to Web Design

Course Description

Using a hands-on, project-based approach, students learn the terminology, basic concepts, and design techniques necessary for the development of a web page. Given a specific project, students consider design issues specific to web-based presentations; learn about effective page layout, navigation, and text; and delve into the design process. Students use Kompozer® and are introduced to an authoring software application and basic Hypertext Markup Language (HTML) as they create a well-designed and properly functioning web site. Technical issues such as file size and correct resolution of images are also covered. Photoshop and Flash are used to create images and animation.

Essential Questions

- Have you ever wondered how to post information for the whole world to be able to see?
- What are web designers or you as a web designer, trying to make you feel, see, or understand?
- How is web design applied to real life? When can you use web design skills?

Outcomes

Upon successful completion of this course, students will:

- Know how to design a web site by using design and/or code elements.
- Understand html and (x)html coding.
- Apply html, (x)html, and java coding in multiple design environments.
- Create and post a useable web site with a specific purpose.

Instructional Strategies

Throughout the three-week course many instructional strategies will be used to differentiate for each student. The pre-assessment will enable the instructor to guide instruction at a high interest and meaningful level for each student. Students will be able to apply skills learned through PowerPoint presentations, book readings, and teacher lectures in a variety of ways.

Web design is very hands-on in nature. Each time a concept is discussed, the students will have the ability to use and apply that skill on the computer. Scaffolding will be used to teach large skills in pieces, each piece associated with different web sites and web skills all building up to create more advanced web sites. Tiered assignments will be used to create different expectations for the variety of ability levels on the computer. Although a majority of the work will be completed independently, there will be opportunities to work in small groups.

Resources and Materials

- **Books**
 - a. *Learning Web Design: A Beginner's Guide to (X)HTML, Style Sheets, and Web Graphics* by Jennifer Niederst Robbins
 - b. *JavaScript, A Beginner's Guide*, Third Edition by John Pollock
 - c. *Introduction to Web Design Using Dreamweaver* by Mark Evans and Michael Hamm
- **Website**
 - a. Class Wiki <http://ctdwebdesign.pbworks.com>

- **Software**
 - a. KompoZer web authoring software, can be downloaded at <http://kompozer.net/>
 - b. Adobe Dreamweaver
 - c. Adobe Photoshop
 - d. Adobe Flash
- **Materials**
 - a. Journal
 - b. Teacher handouts
 - c. Flash drive

Student Assessment

- **Pre-Assessment**
The pre-assessment is an online quiz addressing many of the concepts covered in the course. After the students take the pre-assessment the instructor and teacher's assistant will analyze concepts that the students may already know and what materials need to be covered in more detail.
- **Documentation of Learning**
Nightly homework and periodic quizzes to check understanding will be a form of documentation to assess student learning. Students will also be assessed informally as the instructor and teacher's assistant are observing and meeting with students in whole group, small group, and independent settings. Exit Slips will be completed each and everyday. Students will be requested to reflect on assignments or asked specific questions to analyze understanding of topics discussed.
- **Post-Assessment**
The post-assessment will be a culminating web site in which the student will apply the skills learned throughout the course.

Schedule

Date	Topic(s)	In-class Activities	Assignments/Assessments
Monday June 27, 2011	<ul style="list-style-type: none"> • Types of Web sites • Careers in Web Development • Software Introductions 	<ul style="list-style-type: none"> • Goal Setting • Types of Web sites (commercial, portal, informational, personal, and educational) • Research Careers (small group) 	<ul style="list-style-type: none"> • Pre-Assessment (in class) • Read Chapters 2 & 3 in <i>Learning Web Design</i> Chapter Review Questions
Tuesday June 28, 2011	<ul style="list-style-type: none"> • URLs • Organizing root folders • HTML code - basics 	<ul style="list-style-type: none"> • Create a web site – Hardware Devices • HTML code writing – Begin Web site Black Goose Bistro 	<ul style="list-style-type: none"> • Read Chapters 4 & 5 in <i>Learning Web Design</i> Chapter Review Questions <li style="text-align: right;">Study Session Tonight
Wednesday June 29, 2011	<ul style="list-style-type: none"> • HTML code • Adding hyperlinks – external • Graphic Design 	<ul style="list-style-type: none"> • Planning a Web site • Create a web site – Jen's Kitchen Adding Hyperlinks • Design Graphics using GIMP 	<ul style="list-style-type: none"> • Handout – Effective Web Design

Date	Topic(s)	In-class Activities	Assignments/Assessments
Thursday June 30, 2011	<ul style="list-style-type: none"> Adding hyperlinks – internal (ids) Inserting tables using HTML 	<ul style="list-style-type: none"> Edit HTML code to add links within a document – Glossary Developing Content and Layout Begin to Design Language Club Web site Tuscany Web site – Adding Tables 	<ul style="list-style-type: none"> Handout – Effective Web Design <p style="text-align: right;">Study Session Tonight</p>
Friday July 1, 2011	<ul style="list-style-type: none"> Review Skills from the week 	<ul style="list-style-type: none"> Continue Language Club Web site Table Challenge Using Graphics to add interest Design – Sandwich Shop web site 	<ul style="list-style-type: none"> Table Challenge (in class) Read Chapters 6, 7, & 8 in <i>Learning Web Design</i> <p>Chapter Review Questions</p>
Monday July 4, 2011	<ul style="list-style-type: none"> Adding Interactivity – Forms Declaring Types of Documents 	<ul style="list-style-type: none"> Advanced HTML Web site – Pimp My Shoes – Adding forms Locating Copyright Free images Continue Sandwich Shop web site 	<ul style="list-style-type: none"> Handout Design Theme for final web site (need to submit for approval)
Tuesday July 5, 2011	<ul style="list-style-type: none"> Adding a CSS (style sheet) Formatting Text 	<ul style="list-style-type: none"> Project Planning Developing a web site Adding CSS to web site – New \$20 bill HTML, Scripting, and Interactivity Using CSS to format Text in web site – Black Goose Bistro 	<ul style="list-style-type: none"> Read Chapters 9, 10, & 11 in <i>Learning Web Design</i> <p>Chapter Review Questions</p> <p style="text-align: right;">Study Session Tonight</p>
Wednesday July 6, 2011	<ul style="list-style-type: none"> Adding a background image Visual spacing 	<ul style="list-style-type: none"> Adding a Background Image – web site - Cabbage Visual Spacing – web site – JenWARE Web site functionality Adding a Hit Counter Begin paper draft of final web site 	<ul style="list-style-type: none"> Read Chapters 13, 14, & 15 in <i>Learning Web Design</i> <p>Chapter Review Questions</p>
Thursday July 7, 2011	<ul style="list-style-type: none"> CSS Page Layout – Fixed, Liquid, and Elastic Creating Bullets & Tabs CSS Rollovers 	<ul style="list-style-type: none"> Page Layouts with CSS (two columns, three columns, floating layout) web site – Mount Olympus News Tabbed Navigation CSS rollovers Continue draft of final web site Photos around campus (bring your digital camera) 	<ul style="list-style-type: none"> Read Chapters 16 & 17 in <i>Learning Web Design</i> <p>Chapter Review Questions</p>
Friday July 8, 2011	<ul style="list-style-type: none"> Review skills from the week 	<ul style="list-style-type: none"> CSS Rollovers – web site – Designerrific Begin computer work to design final web site Application of course work 	<ul style="list-style-type: none"> Read Chapters 18 & 19 in <i>Learning Web Design</i> <p>Chapter Review Questions</p>

Date	Topic(s)	In-class Activities	Assignments/Assessments
Monday July 11, 2011	<ul style="list-style-type: none"> • Using Dreamweaver • Creating Flash Animations 	<ul style="list-style-type: none"> • Use Dreamweaver to create web site – Bike and Hike • Work on final web site • Application of course work • Flash Animation – Create a Cartoon Character 	<ul style="list-style-type: none"> • Read Chapter 20 in <i>Learning Web Design</i> Chapter Review Questions Write a journal entry ... what are you going to do with your web design knowledge after class is complete.
Tuesday July 12, 2011	<ul style="list-style-type: none"> • Final Web sites 	<ul style="list-style-type: none"> • Work on final web site • Application of course work 	<ul style="list-style-type: none"> • To be determined
Wednesday July 13, 2011	<ul style="list-style-type: none"> • Field Trip? Museum of Science and Industry 		<ul style="list-style-type: none"> • To be determined
Thursday July 14, 2011	<ul style="list-style-type: none"> • Final Web sites 	<ul style="list-style-type: none"> • Work on final web site and post them to the CTD web site 	<ul style="list-style-type: none"> • To be determined
Friday July 15, 2011	<ul style="list-style-type: none"> • Final Web sites – Upload • Expo Showcase • Parent / Teacher Conferences 	<ul style="list-style-type: none"> • Share our work with other classes and our parents 	

CTD Statement on Third-Party Web Sites

Instructors are required to thoroughly review any third-party web sites they intend to use in their courses for inappropriate content. However, because web content continuously changes, CTD disclaims any responsibility for any of the content contained on third-party web sites used in course materials. If you become aware of anything that may be inappropriate, please notify CTD staff immediately.