WEBD221

Course Summary

Description

Course Description: This course teaches advanced Web site development concepts and skills through a combination of readings and hands-on development exercises. This course covers the Advanced HTML5 and CSS3 Specialist curriculum of the CIW Web and Mobile Design Professional certificate. It builds upon fundamental Web coding skills by emphasizing HTML5 structure elements, embedded video and audio elements, HTML5 APIs, cross-browser user-input forms, use of JavaScript to add interactive capabilities to Web pages, and use of Cascading Style Sheets (CSS3) to enhance reusability and to design consistent interfaces. Advanced CSS3 techniques are introduced, including 2D and 3D transformations, transitions, animations, and user interface (UI) properties. Techniques for developing Web pages that are optimized for mobile devices are emphasized, including Responsive Web Design (RWD). Students will need access to Microsoft Internet Explorer and Firefox. This software is not provided by the course material grant and must be purchased/provided by the student. To succeed in this course, students will also need basic computer knowledge such as creating files and folders, downloading and uploading files, creating zipped files, and working with text editor such as Notepad++. (Prerequisite: WEBD121)

Course Scope:

This course is a study of HTML5 essentials using Cascade Style Sheets (CSS) Version 3. Students will explore the principles, practices, and features involved in using advanced CSS3 techniques; JavaScript events, functions, and methods; using HTML5 APIs and forms; and designing for mobile devices. The course uses the CIW Online resources located at http://education.certification-partners.com/ciw/. The resources provide lab files, exercises, quizzes, movies, CIW course mastery questions, CIW practice exams, and other related information needed to become a CIW Advanced HTML5 and CSS3 Specialist. To succeed in the course, students will need to either complete WEBD121 or have equivalent basic HTML and CSS coding knowledge.

Objectives

After successfully completing this course, you will be able to:

- **CO-1:** Create Web pages using HTML5 elements, attributes and values.
- **CO-2:** Use Cascading Style Sheets (CSS3) to enhance reusability and to design consistent interfaces.
- **CO-3:** Use advanced Cascading Style Sheets (CSS3) techniques to add visual effects to Web pages.
- **CO-4:** Use JavaScript to add interactive capabilities to Web pages.
- **CO-5:** Apply HTML5 API technologies to extend the capabilities of your Web pages.
- **CO-6:** Create cross-browser compatible user-input forms using HTML5.
- **CO-7:** Develop Web pages that are optimized for mobile devices.

Outline

Week 1:

Topic

Web development trifecta and its significance.

Learning Objectives

CO-1: Create webpages using HTML5 elements, attributes and values.

Readings

Wk. 1 Reading & Resources: Lesson 1

Wk. 1 Lesson Review: p. 1-28

Wk. 1 Lesson: Video lectures on Lesson 1

Assignment

Introduction Forum

Plagiarism Forum

Week 1 Forum

Week 1 Assignment (Web page using HTML 5 elements, including structure tags)

Week 2:

Topic

CSS3 used to enhance reusability and to design consistent interfaces

Learning Objectives

CO-2: Use Cascading Style Sheets (CSS3) to enhance reusability and to design consistent interfaces.

Readings

Wk. 2 Reading & Resources: Lessons 2, 3

Wk. 2 Lesson Review: p. 2-29

Wk. 2 Lesson: Video lectures on Lessons 2, 3

Assignment

Week 2 Forum

Week 2 Assignment (Web page with CSS3 style sheet)

Week 3:

Topic

Advanced CSS3 for visual effects benefits

Learning Objectives

CO-3: Use advanced Cascading Style Sheets (CSS3) techniques to add visual effects to webpages.

Readings

Wk. 3 Reading & Resources: Lesson 4

Wk. 3 Lesson Review: p. 3-28

Wk. 3 Lesson: Video lectures on Lesson 4

Assignment

Week 3 Forum

Week 3Assignment (Style sheet using advanced CSS3 properties)

Week 4:

Topic

JavaScript and interactive capabilities

Learning Objectives

CO-4: Use JavaScript to add interactive capabilities to webpages.

Readings

Wk. 4 Reading & Resources: Lessons 5, 6

Wk. 4 Lesson Review: p. 5-27

Wk. 4 Lesson: Video lectures on Lessons 5, 6

Assignment

Week 4 Forum

Week 4 Midterm Project (Comprehensive Website with JavaScript functionality)

Week 5:

Topic

HTML 5 APIs used to extend the capabilities of your Web pages.

Learning Objectives

CO-5: Apply HTML5 API technologies to extend the capabilities of your webpages.

Readings

Wk. 5 Reading & Resources: Lesson 7

Wk. 5 Lesson Review: p. 7-32

Wk. 5 Lesson: Video lectures on Lesson 7

Assignment

Week 5 Forum

Week 5 Assignment (Web page with Drag-and-Drop API functionality)

Week 6:

Topic

Cross-browser compatible forms

Learning Objectives

CO-6: Create cross-browser compatible user-input forms using HTML5.

Readings

Wk. 6 Reading & Resources: Lesson 8Wk. 6 Lesson Review: p. 8-25

Wk. 6 Lesson: Video lectures on Lesson 8

Assignment

Week 6 Forum

Week 6 Assignment (Web page with new HTML 5 form input types)

Extra Credit Forum (Optional)

Week 7:

Topic

Form input validation

Learning Objectives

CO-6: Create cross-browser compatible user-input forms using HTML5.

Readings

Wk. 7 Reading & Resources: Lesson 9

Wk. 7 Lesson Review: p. 9-26

Wk. 7 Lesson: Video lectures on Lesson 9

Assignment

Week 7 Forum

Week 7 Assignment (Web page with HTML 5 form input validation)

Week 8:

Topic

Responsive Web Design (RWD) principles and techniques

Learning Objectives

CO-7: Develop webpages that are optimized for mobile devices.

Readings

Wk. 8 Reading & Resources: Lesson 10

Wk. 8 Lesson Review: p. 10-30

Wk. 8 Lesson: Video lectures on Lesson 10

Assignment

Week 8 Forum

Reflections Forum

Week 8 Final Project (Comprehensive website that is optimized for mobile devices)

Evaluation

This course requires disciplined independent practice and individual completion of assignments. Although Distance Learning provides you with a flexible schedule to meet your professional, personal, and academic responsibilities, you are expected to follow the syllabus and submit assignments on time and on schedule. **Assignments, quizzes, and *initial* forum posts may be submitted up to one week late, but will lose 5 points per day late.** Follow-up posts will not receive any credit if posted after the due date. After one week past the due date, assignments, quizzes, and forum posts may not be submitted for credit. All work must be submitted by the end of the class session. <u>**No**</u> assignments will be accepted after the class end date.

Reading Assignments

Each week, you will be assigned chapters from the class textbook to read. You will be evaluated on your understanding of the material in your readings through your forum contributions, assignments, quizzes, and final project. In order to grasp the weekly course objectives and participate fully in the discussions, it is highly recommended that you read each week's assigned reading chapters before participating in the week's forum discussion, taking your weekly quizzes, and completing your weekly assignments.

Supplemental Readings

Students are required to research weekly topics on the Internet and use their research findings in their forum posts and weekly assignments to support their points.

Forum Participation

Each week you will be expected to participate in one or more class discussions on the forum. Each week's discussion questions can be found on the forum itself. Each one of you will have different and unique experiences and points of view related to the topics that we are learning each week, and we can all learn from each other by sharing our thoughts and ideas together on the forum. Your participation in the forums unleashes the power of synergy in our classroom. To facilitate this interaction, please be prompt when posting your forum work for each week, allowing time for the others to actively engage in the dialogue.

It is a requirement to conduct independent research (outside of the textbook and assigned readings) for each

discussion. However, students should demonstrate their own understanding of the material they learn from their sources (in their own words) and avoid copying and pasting from websites. You are required to include in-text citations in APA format within the body of your post to show where you are discussing information you learned from your source (remember that citations give credit for the *ideas* you learned from your source, not necessary the exact words of the source). You are also required to include a reference list in APA format at the bottom of your post. While independent research is important and required, it is also encouraged that you draw on your own personal and professional experience in answering the forum questions.

Please read the following guidelines **carefully,** as your grade is determined by compliance with all of the guidelines.

Forum Timing: Although the due date for both your initial post, with your answers to the week's questions, and your two follow-up posts is 11:55 PM ET on Sunday, you are encouraged to post your initial post no later than Thursday, to allow time for your classmates to read and reply to your post. Be sure to read all of the follow-up posts to your own posts and reply to any questions or requests for clarification. You are encouraged to conduct research and use other sources to support your answers.

Forum Guidelines:

- Try to post your initial response to each forum by 11:55 PM ET on Thursday each week.
- Initial responses should be no less than 250 words.
- Do not include my questions or discussion prompts in your post. You may number your answers, but your post should contain only your own original writing.
- Write in complete sentences and full paragraphs and avoid using lists of any kind in your posts.
- Your initial post must be original in content and demonstrate a thorough analysis of the topic.
- Include your own personal experience related to the topic being discussed. If you do not have experience working with information systems, describe your experience with various information systems, including web-based systems, you use in your personal life.
- You must also conduct research on the topic of discussion using outside sources, in addition to your textbook, each week. You are encouraged to use the APUS Online Library to find scholarly articles related to the topics of discussion. You may also use the Internet to search for information, but make sure you only use scholarly and authoritative sources (not Wikipedia or other similar sites).
- Write in your own words and avoid copying and pasting from other websites.
- If you do quote from a source, keep quotations to a minimum – I would rather see you express your own understanding of what you learned from your sources, in your own words.
- You must cite information from your textbook reading each week, as well as information from at least one additional outside source. Remember that citing a source does not mean you need to directly quote the source! Instead, you are encouraged to paraphrase and discuss (in your own words) the *ideas* you learned from the sources you consulted. Citations are used to give credit to the source from which you learned the *ideas* you are discussing – not the exact words.
- Use in-text citations in the body of your post, in APA format. In addition, list your references at the bottom of your post, in APA format. There must be at least one in-text citation in the body of your post corresponding to each reference you list at the bottom of your post.
- Reply to at least 2 of your classmates in each forum by 11:55 PM ET on Sunday each week.
- Replies to classmates should be no less than 150 words each.
- For practical reasons, when you respond to other learners' posts, please start your response by referencing their name.
- Responses to classmates must be significant in content, to advance the discussion forward. Your responses should add additional insight to the discussion or challenge your classmates' opinions.
- You are encouraged to log into the classroom several times each week to participate in the class discussion on the forum.
- Refer to the forum for more details on grading. Forum postings are a significant part of your grade and I will be looking for quality and depth in your participation in the weekly forum discussions.

Quizzes

In this course, you will take 10 End-of-Lesson Quizzes on the CIW Online Resources website (http://education.certification-partners.com/ciw/). Instructions for registering on the CIW Online Resources website, as well as your access code, are provided in your Week 1 Lesson, under Lessons in the classroom.

Important Note: Upon completion of each quiz, you must take a screenshot (screen capture) of your score and submit it in the APUS classroom along with your weekly Assignment. Your screenshot **must** be an actual image file (.jpg, .gif, .tiff, .png, etc.) and not a Word file. In order to receive credit for each quiz you must create an actual screen capture (image file) and not simply copy and paste your score.

A passing score is 75%. You will receive the full 10 points on the quiz portion of each week's assignment for passing that week's quiz(zes), as long as your score is 75% or higher on each quiz! You are allowed to re-take the quizzes on the CIW website, so if you do not pass a quiz on your first attempt, keep trying until you achieve a passing score. Please watch the video available in each week's assignment instructions for a demonstration of how to locate the quizzes and what you should submit for your screenshots.

Assignments

You will have assignments due in each week of this course. They will consist mostly of the creation of original Web pages, as well as the quizzes discussed in the section above. The Web page assignments are designed to give you hands-on practice in designing Web pages with HTML5, CSS3, and JavaScript. Most weekly assignments will require you to create a Web page from scratch, applying the techniques you learned in that lesson. Detailed instructions for each weekly assignment will be posted in the Assignments area of the classroom on the first day of the week in which they are due.

Midterm Project

You will have a Midterm Project due at the end of Week 4. Detailed instructions for the midterm project will be posted in the Assignments area of the classroom at the beginning of Week 4.

Final Project

You will have a Final Project due at the end of Week 8. Detailed instructions for the final project will be posted in the Assignments area of the classroom at the beginning of Week 8.

Standards for Original Work:

All work submitted must be original work. Incidents of academic dishonesty will result in you failing the assignment, and repeat incidents will result in failing the course. I check forum posts and assignments regularly for incidents of plagiarism and academic dishonesty. Please read and understand the University policy on academic dishonesty (Plagiarism Policy). When writing about ideas learned from your sources, you must summarize the ideas **in your own words** (rather than using direct quotations from your sources). Be sure to provide appropriate citations and references on your forum posts and assignments to give credit to your sources for the ideas you are paraphrasing and writing about, even though you will not be directly quoting from your sources.

Furthermore, all Web development work in this course must be new and unique. You cannot reuse or build upon Web pages you previously created in another course or created for personal or work reasons. You are expected to build a brand new website for this course, adding pages to it every week as directed in the weekly assignments.

Grading:

Name	Grade %
Forums	24.00 %
Week 1 Forum	3.00 %
Week 2 Forum	3.00 %
Week 3 Forum	3.00 %
Week 4 Forum	3.00 %
Week 5 Forum	3.00 %
Week 6 Forum	3.00 %
Week 7 Forum	3.00 %
Week 8 Forum	3.00 %
Extra Credit	1.00 %

Wk 6 Topic 2 Forum	1.00 %
Assignments	**30.00 %**
Wk 1 Assignment	5.00 %
Wk 2 Assignment	5.00 %
Wk 3 Assignment	5.00 %
Wk 5 Assignment	5.00 %
Wk 6 Assignment	5.00 %
Wk 7 Assignment	5.00 %
Midterm Project	**16.00 %**
Wk 4 Midterm Project	16.00 %
Final Project	**30.00 %**
Wk 8 Final Project	30.00 %

Materials

Book Title: Advanced HTML5 and CSS3 Specialist Academic Student Guide - e-book available inside the classroom

Author: CIW

Publication Info: CIW

ISBN: 9780742332508

Additional references are found in the Lessons area of the classroom, embedded in the weekly lessons.

Course Guidelines

Citation and Reference Style

- Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

Tutoring

- Tutor.com offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help. Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for 'Tutor' to create an account.

Late Assignments

- Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
- Generally speaking, late work may result in a deduction up to 20% of the grade for each day late, not to exceed 5 days.
- As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

Turn It In

- Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.

Academic Dishonesty

- Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

Submission Guidelines

- Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.

Disclaimer Statement

- Course content may vary from the outline to meet the needs of this particular group.

Communicating on the Forum

- Forums are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the forums is to actively participate in an on-going discussion about the assigned content.
- "Substantive" means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says "I agree" is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.
- As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

University Policies

Student Handbook

- Drop/Withdrawal policy

- Extension Requests

- Academic Probation

- Appeals

- Disability Accommodations

The mission of American Public University System is to provide high quality higher education with emphasis on educating the nation's military and public service communities by offering respected, relevant, accessible, affordable, and student-focused online programs that prepare students for service and leadership in a diverse, global society.