SAN DIEGO COMMUNITY COLLEGE DISTRICT CONTINUING EDUCATION COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER

COMM 641

COURSE TITLE

WEB PROGRAMMING BEGINNING

TYPE COURSE

NON-FEE VOCATIONAL

CATALOG COURSE DESCRIPTION

This course includes an overview of the internet, components of a website and introduces web programming using HTML. Topics include, current web technologies, website development tools, basic web programming skills and hand coding of a website. Students will learn to publish projects and sites to the web and utilize cascading style sheets for web page layout and formatting. Current industry standards, processes and techniques are also taught. (FT)

LECTURE/LABORATORY HOURS

160

ADVISORIES

Completion of Interactive Multi-Media Program or equivalent.

RECOMMENDED SKILL LEVEL

Possess a 10th grade reading level; ability to communicate effectively in the English language.

INSTITUTIONAL STUDENT LEARNING OUTCOMES

- 1. Social Responsibility
 - SDCE students demonstrate interpersonal skills by leaning and working cooperatively in a diverse environment.
- 2. Effective Communication
 - SDCE students demonstrate effective communication skills.
- 3. Critical Thinking
 - SDCE students critically process information, make decisions, and solve problems independently or cooperatively.

INSTITUTIONAL STUDENT LEARNING OUTCOMES (CONTINUED)

4. Personal and Professional Development SDCE students pursue short term and life-long learning goals, mastering necessary skills and using resource management and self-advocacy skills to cope with changing situations in their lives.

COURSE GOALS

- 1. Introduce basic web programming using HTML.
- 2. Basic understanding of the internet and the worldwide web.
- 3. Identify the terminology associated with the internet.
- 4. Learn components of building a website including file structure specific to web design.
- 5. Learn how to publish projects and sites to the web.
- 6. Utilize cascading style sheets (CSS) for web page layout and formatting.
- 7. Learn to hand-code web pages.
- 8. Understand current industry standards, processes and techniques.

COURSE OBJECTIVES

Upon successful completion of the course, the student will be able to:

- 1. Understand basic web programming and demonstrate using HTML.
- 2. Demonstrate a basic understanding of the internet and the worldwide web.
- 3. Demonstrate the terminology associated with the internet.
- 4. Demonstrate and explain the building of a website.
- 5. Explain the components of a website.
- 6. Demonstrate publishing projects and sites to the web.
- 7. Demonstrate using cascading style sheets.
- 8. Demonstrate building web pages using hand coding.
- 9. Explain current industry standards, processes and techniques.

SECTION II

COURSE CONTENT AND SCOPE

- Overview of How The Internet Works
 - 1.1. Brief history of Internet
 - 1.1.1. Types of Internet information available
 - 1.1.2. Internet common terms
 - 1.1.3. Internet terminology
- 2. Components of a Website
 - 2.1. Necessary files
 - 2.2. Naming conventions
- 3. Web Based File Structure
 - 3.1. Directory hierarchy
 - 3.2. Traversing the DOM

COURSE CONTENT AND SCOPE (CONTINUED)

- 4. Utilizing WHOIS
- 5. Obtaining a Domain Name
 - 5.1. Working with a registrar
- 6. Obtaining Web Based Hosting
 - 6.1. How servers and hosts function
- 7. Publishing a Website to The Internet
 - 7.1. Methods of accessing FTP
 - 7.2. Applications that assist with FTP
 - 7.3. File transfer
 - 7.4. Managing web related files through an FTP application
- 8. Web Architecture, HTML, and Related Technologies
 - 8.1. Introduction
 - 8.2. The W3C
 - 8.3. Basic structure of a web page
 - 8.4. HTML syntax
 - 8.5. Browsers to download
 - 8.6. Creating a project/file naming/folder structure
 - 8.7. Using a code based editor to author web pages
 - 8.8. Creating your first web page
 - 8.9. Validating your first web page
- 9. Tags
 - 9.1. The anatomy of a tag
 - 9.2. Block level elements
 - 9.3. Inline level elements
- 10. Attributes
 - 10.1. Global attributes
- 11. Understanding Lists, Links, and Images
 - 11.1. Working with list elements
 - 11.2. The unordered list
 - 11.3. The ordered list
 - 11.4. The dictionary definition list
- 12. Working With Links
 - 12.1. Attributes for links
 - 12.2. Relative links
 - 12.3. Absolute links
 - 12.4. Creating a link for an image/text
 - 12.5. Creating a link to an email address
 - 12.6. Creating a link to a placeholder
- 13. Working With Images
 - 13.1. Attributes for images
 - 13.2. Types of images
- 14. Use of Div and Span
 - 14.1. Div tags
 - 14.2. Span tags

COURSE CONTENT AND SCOPE (CONTINUED)

15.	HTML5							
	15.1.	. Difference between HTML5 and older versions of (x)HTML						
		New HTML5 specific tags						
	15.3.	HTML5 head elements						
	15.4.	HTML5 section elements						
	15.5.	HTML5 grouping elements						
		HTML text-level semantic elements						
16.	Buildin	Building a Simple Website						
		Creating navigation						
	16.2.	Linking up pages						
		16.2.1.						
17.	Casca	ding Style	Sheets (CSS) For Page Structuring and Formatting					
		Introduction						
	17.2.	The importance of CSS						
	17.3.	How CSS works						
	17.4.	Defining styles						
			Creating external style sheets					
		17.4.2.	Creating embedded styles					
		17.4.3.	Creating inline styles					
	17.5.	Selector types						
			The universal selector					
		17.5.2.	Tag selector					
		17.5.3.	The ID selector					
		17.5.4.	The class selector					
	17.6.	CSS syntax						
		17.6.1.	Understanding the parts of a style					
		17.6.2.	Using comments					
		17.6.3.	Selecting code with class and ID selectors					
		17.6.4.	Selecting behaviors with pseudo selectors					
		17.6.5.	Using descendant and attribute selectors					
		17.6.6.	Understanding units and values					
		17.6.7.	Understanding the box model					
	17.7.	Formatting text						
			Choosing fonts					
			Changing text size					
		17.7.3.	Modifying font attributes					
	17.8.	Formatting images						
		17.8.1.	Creating and formatting image borders					
		17.8.2.	Wrapping text around images					
	17.9.	Using color and backgrounds						
		17.9.1.	3 1					
		17.9.2.	Using background colors and images					
	17.10.	Creating borders						
			Using the border property					
		17.10.2.	Modifying border properties					

COURSE CONTENT AND SCOPE (CONTINUED)

17.11.	Formatting links					
	17.11.1.	Formatting links using pseudo-selectors				
	17.11.2.	Using text decoration				
	17.11.3.	Formatting links with sprites				
17.12.	Position	,				
	17.12.1.	Absolute position property				
	17.12.2.	Relative property				
	17.12.3.	Fixed positioning				
	17.12.4.	· · · · · · · · · · · · · · · · · · ·				
	17.12.5.	Using floats				
		Using clears				
17.13.	Fixed and	l flexible layouts				
17.14.	CSS3	•				
	17.14.1.	Overview of CSS3 capabilities				
	17.14.2.	CSS3 selectors				
	17.14.3.	Working with color in CSS3				
	17.14.4.	CSS3 typography				
	17.14.5.	CSS3 and page layout				
	17.14.6.	CSS3 box model				
		17.14.6.1. Borders				
		17.14.6.2. Box shadows				
		17.14.6.3. CSS3 backgrounds				
	17.14.7.	CSS3 transitions and transforms				
17.15.	CSS best practices					
	17 15 1	Organizing CSS				

APPROPRIATE READINGS

17.15.2. Print style sheets

Students may be given reading assignments from the textbook, supplemental reading assignments, industry-related periodicals or magazines, manuals, online help pages, articles posted on the Internet, and information from Web sites, online libraries and databases.

WRITING ASSIGNMENTS

Typical writing assignments may include completing assigned reports, providing written answers to assigned questions, performing internet research and reporting on that research.

OUTSIDE ASSIGNMENTS

Assignments may include, but are not limited to: appropriate internet research, reading, preparing reports and studying as needed to perform successfully in class.

APPROPRIATE ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING

Assignments which demonstrate critical thinking may include, but are not limited to outlining a web based project, use and creation of file/folder structures, creation of hand-coded non-linear

APPROPRIATE ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING (CONTINUED)

web sites and publishing projects and sites to the web. Students may also be expected to participate in online class discussion posts, in-class discussions and project reviews.

EVALUATION

Evaluation that a student has met the course competencies will include multiple measures of performance related to the course objectives. Evaluation methods may include, but are not limited to performance in a variety of activities and assignments, such as completing a research project individually or in a group, hands-on projects, demonstration of use of the internet, quizzes, class participation, written and practical tests, attendance and punctuality.

Upon successful completion of the course a Certificate of Course Completion will be issued. Upon successful completion of all courses in the program a Certificate of Program Completion will be issued.

METHOD OF INSTRUCTION

Methods of instruction, may include, but are not limited to lectures, discussion, hands-on demonstrations, computer-assisted instruction, laboratory assignments and field trips. This course, or sections of this course, may be offered through distance education.

TEXTS AND SUPPLIES

Textbooks:

HTML, XHTML, and CSS, Elizabeth Castro, New Riders, current edition CSS Pocket Reference. Eric A. Meyer, O'Reilly Media, current edition

Web Development and Design Foundations with HTML5, Terry Felke-Morris, Addison-Wesley, current edition

HTML5 for Web Designers, Jeremy Keith, A Book Apart Jeffrey Zeldmann, current edition

Online Video Training:

www.lynda.com

Supplies:

Pen, journal (composition book), notebook paper and a soft 3-ring binder, or a one-subject 110 sheet college ruled notebook, and appropriate storage media such as a USB Drive or external hard drive.

PREPARED BY _	Emily Kay		DATE _	February, 16, 2014				
REVISED BY		DATE						
Instructors must meet all requirements stated in Policy 3100 (Student Rights, Responsibilities and Administrative Due Process), and the Attendance Policy set forth in the Continuing Education Catalog.								

REFERENCES:

San Diego Community College District Policy 3100 California Community Colleges, Title 5, Section 55002 Continuing Education Catalog