

SAN DIEGO COMMUNITY COLLEGE DISTRICT
CONTINUING EDUCATION
COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER

COMM 645

COURSE TITLE

CONTENT MANAGEMENT SYSTEMS

TYPE COURSE

NON-FEE

VOCATIONAL

CATALOG COURSE DESCRIPTION

This course defines content management systems (CMS) and explains their role in web site development. Students will learn how to create web pages and posts, alter the look and feel of a site through themes and widgets, utilize plugins to enhance site functionality and add security to a CMS based site. Other topics include building a custom theme from scratch, incorporating jQuery and cascading style sheets to fully control the functionality of the site and how to install and set-up a CMS on a local environment. (FT)

LECTURE/LABORATORY HOURS

90

ADVISORIES

Completion of Front End Web Developer I 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 the basics of content management systems (CMS) and their roll in web site development.
2. Learn how to install and run a CMS on a local environment.
3. Learn different programs to use with CMS.
4. Understand creating a child theme.
5. Introduce modifying and adding styles and templates.
6. Learn how to create a custom theme.
7. Utilize JavaScript in themes.

COURSE OBJECTIVES

Upon successful completion, the student will be able to:

1. Describe the basics of CMS and their role in web site development.
2. Install and run a CMS on a local environment.
3. Utilize different programs with CMS.
4. Demonstrate creating a child theme.
5. Demonstrate modifying and adding styles and templates.
6. Create a custom theme.
7. Demonstrate using JavaScript in themes.

SECTION II

COURSE CONTENT AND SCOPE

1. Content Management Systems (CMS) Basics
 - 1.1. Overview
 - 1.2. Evolution
 - 1.3. Types
 - 1.4. Capabilities
2. WordPress, Joomla and Dupal Programs
 - 2.1. Overview
 - 2.2. Installing and running locally
 - 2.2.1. Utilizing a local web server
 - 2.2.2. Setting up a local database
 - 2.2.3. Installing a CMS
 - 2.3. Using the CMS Dashboard
 - 2.4. Using the CMS toolbar
 - 2.5. Publishing posts and pages

COURSE CONTENT AND SCOPE (CONTINUED)

- 2.6. Using page templates
- 2.7. Inserting images, video, and other media
- 2.8. Editing posts
- 2.9. Changing themes
- 2.10. Installing plugins
- 2.11. Adding other users
- 2.12. Securing your CMS based site
- 3. Creating a Child Theme from Scratch
 - 3.1. Definition
 - 3.2. Picking a parent theme
 - 3.3. Creating and activating a basic child theme
 - 3.4. Importing parent theme styles
- 4. Modifying and Adding Styles
 - 4.1. Using the developer tool
 - 4.2. Modifying existing styles
 - 4.3. Adding space between paragraphs
 - 4.4. Changing font family styles
- 5. Modifying and Adding Templates
 - 5.1. Understanding the CMS template hierarchy
 - 5.2. Modifying existing templates
 - 5.3. Moving the header image
 - 5.4. Creating custom page templates
 - 5.5. Using conditional statements for customized effect
 - 5.6. Creating custom header, footer, and sidebar templates
- 6. Creating a Custom Theme
 - 6.1. Starting with a base project
 - 6.1.1. Writing HTML code for use in a CMS theme
 - 6.1.2. Writing the CSS
 - 6.1.3. Styling the various page components
 - 6.1.4. HTML/CSS to CMS considerations
 - 6.2. Building a CMS Theme
 - 6.2.1. Starting with a blank theme template
 - 6.2.2. Introducing template file structure
 - 6.2.3. Breaking up the HTML
 - 6.2.4. Using PHP commands
 - 6.2.5. Building the sidebar
 - 6.2.6. Building the navigation
 - 6.2.7. Fetching external content
 - 6.2.8. Creating a custom home page
 - 6.2.9. Introducing custom fields
 - 6.2.10. Creating custom pages
 - 6.2.11. Creating custom category pages
 - 6.2.12. Implementing comments

COURSE CONTENT AND SCOPE (CONTINUED)

- 6.3. Beyond the Theme
 - 6.3.1. What will work with a CMS
 - 6.3.2. Using JavaScript in themes
 - 6.3.3. Introducing plug-ins
 - 6.3.4. Setting up security

APPROPRIATE READINGS

Readings of appropriate reading level may include, but are not limited to materials such as a textbook, supplemental reading assignments, industry-related periodicals or magazines, manuals, videos, on-line help, articles posted on the internet, and information from web sites, on-line libraries and databases.

WRITING ASSIGNMENTS

Typical writing assignments may include completing assigned projects, 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 setting up a local CMS based site, creating a custom design through child themes, creating a completely custom coded theme for use with a CMS program, participate in group discussions, work individually and in groups to customize a CMS based site. Students may also be expected to participate in online class discussion posts, in-class discussions and project reviews.

EVALUATION

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, and demonstration of use of information architecture, 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

Books

CMS Made Simple 1.6: Beginner's Guide, Sofia Hauschildt, Packt Publishing, current edition
CMS Made Simple Development Cookbook, Samuel Goldstein, Packt Publishing, 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, 20, 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