Course Acronym:	CIS
Course Number:	132
Descriptive Title:	Web Development using HTML5, CSS3, and WordPress
Division:	Business
Department:	Computer Information Systems
Course Disciplines:	Computer Information Systems
Catalog Description:	This course is an introduction to technologies used to create dynamic, expressive, and responsive websites, using HTML5 (Hypertext Markup Language 5), CSS3 (Cascading Style Sheets 3), and WordPress, a popular Content Management System. Students will learn how to structure documents logically and create information-rich sites using WordPress, incorporating new HTML5 features including typography, social tools, geolocation, drag-and-drop functionalities, and API's (Application Programming Interfaces). Students will also use CSS3 to control the style, appearance, and presentation of website content, using animation, transformation, transition, filter, and shadow techniques. Accessibility guidelines will also be covered for compliance with current ADA (Americans with Disabilities Act) standards.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	2
Hours Laboratory (per week):	3
Outside Study Hours:	4
Total Course Hours:	90
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	4/16/2018
Transfer UC:	propose
Effective Date:	pending
General Education: ECC	
Term:	

Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	
Student Learning Outcomes:	**SLO #1** Demonstrate the ability to plan, design, develop, test, and publish a website developed in HTML5, CSS3, and WordPress. **SLO #2** Understand how to incorporate usability and accessibility features in a website. **SLO #3** Understand the components and steps required to publish a website on the internet.
Course Objectives:	1. Understand the process of planning, designing, developing, testing, and publishing websites, using HTML5, CSS3, and WordPress. 2. Create HTML5 documents containing text, links, images, animations, lists, tables, and forms. 3. Develop valid HTML5 and CSS3 code and test with various validators. 4. Apply CSS3 to separate style from content and allow for effective use of assistive technologies. 5. Create inline, embedded, and linked stylesheets using appropriate selectors. 6. Compare and contrast the various structure, rules, and inheritance styles of CSS3. 7. Understand and implement proper web server file management. 8. Publish web pages to a web server. 9. Understand how to analyze hosting requirements, lease hosting space and domain names, configure the host server, and activate the domain. 10. Understand the capabilities and limitations of web browsers as they relate to HTML5 and CSS3 technologies.

Major Topics:	**I. Introduction to WordPress, HTML5 and CSS3 (2 hours, lecture)**
	
	  A. Content Management Systems
	  B. Traditional static websites
	
	II. Planning (2 hours, lecture)
	
	  A. Website components
	  B. Browser considerations
	  C. Design standards
	  D. Accessibility
	
	III. Design (2 hours, lecture)
	
	  A. Information Architecture

B.   Site maps

IV. HTML5 (8 hours, lecture)

    A.   Elements
    B.   Attributes
    C.   Events

V. CSS3 (6 hours, lecture)

    A.   Styles
    B.   Inline, internal, and external stylesheets
    C.   Selectors
    D.   Properties

VI. Accessibility (2 hours, lecture)

    A.   HTML5 validation
    B.   CSS3 validation

VII. WordPress Content Management System (12 hours, lecture)

    A.   Wordpress.com vs. Wordpress.org
    B.   User Interface options
    C.   Pages and page links
    D.   Multimedia
    E.   Friendly URL's
    F.   Plug-ins
    G.   Themes

VIII. Website Deployment (2 hours, lecture)

    A.   Host plans and features
    B.   Domain names
    C.   FTP software
    D.   File management

IX. The Development environment (2 hours, lab)

    A.   Editors
    B.   Browsers
    C.   Tools

X. Layout and Navigation (8 hours, lab)

    A.   Document structure
    B.   Blocking and spacing elements
    C.   Navigation techniques
    D.   Menu Options

XI. Forms (6 hours, lab)

A. Form elements
B. Form attributes
C. Form data submission
D. Input elements
E. Event elements

XII. Multimedia (4 hours, lab)

A. Images
B. Background graphics
C. Audio and video content, controllers, streaming, and compression
D. Animation controllers

XIII. Links (4 hours, lab)

A. Absolute links
B. Relative links
C. Bookmarks

XIV. CSS3 Stylesheets (2 hours, lab)

A. Style formation
B. Style options

XV. CSS3 Style Development (8 hours, lab)

A. Font development
B. Floating objects
C. Box models
D. Object formation and alteration

XVI. WordPress Website Development (18 hours, lab)

A. Dashboards
B. Administration
C. Themes
D. Pages
E. Posts
F. Widgets
G. Plug-ins
H. Categories
I. Tags
J. Friendly URL's

XVII. Server Setup and Site Implementation (2 hours, lab)

A. Domain Names
B. Publishing/Website Deployment
C. Search Engine Optimization

Total Lecture Hours:	36

Total Laboratory Hours:	54
Total Hours:	90
Primary Method of Evaluation:	2) Problem solving demonstrations (computational or non-computational)
Typical Assignment Using Primary Method of Evaluation:	Create a web page using HTML5 and CSS3 that incorporates the use of transitions to move a heading tag between several states (from small to large). Include timing properties to set triggers, durations, and delays.
Critical Thinking Assignment 1:	Examine the user interface design for a website. Plan, design, and develop the website using WordPress.
Critical Thinking Assignment 2:	For a given document, add the necessary HTML5 markup to layout the pages using CSS3. Use div and span tags to identify specific areas of the pages that will be formatted with CSS3. Create the associated CSS3 styles in an external style sheet, and attach that sheet to all of the pages in the site.
Other Evaluation Methods:	Class Performance, Objective Exam, Quizzes
Instructional Methods:	Demonstration, Lab, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Answer questions, Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research)
If Other:	Programming
Up-To-Date Representative Texts:	Donahoe & Hartl. Learn Enough HTML, CSS and Layout to be Dangerous: An Introduction to Modern Website Creation and Templating Systems. 1st ed. Pearson Publishing, 2022
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite:	
Category:	
Requisite course(s): List both prerequisites and corequisites in this box.	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	**Students should have a working knowledge of the Windows operating system and proficiency in file management and word processing.**
Requisite Skill and Matching Skill(s): Bold	

the requisite skill(s). If applicable	
Requisite course:	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	**Students should have a working knowledge of the Windows operating system and proficiency in file management and word processing. They should also understand how to use a browser to locate information on the internet.** Students who possess these skills will have the ability to manage the file structure required for website development, be able to navigate the web using various browsers, and be able to compare and evaluate user interfaces.
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable	
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Monica Chaban
Date:	
Original Board Approval Date:	
Last Reviewed and/or Revised by:	Martin Anaya
Date:	10/10/2023
Last Board Approval Date:	12/18/2023
Effective Term:	FALL 2024