



COURSE OUTLINE: CSD0112 - INFO. TECHNOLOGY

Prepared: Rodney Martin

Approved: Martha Irwin, Chair, Community Services and Interdisciplinary Studies

Course Code: Title	CSD0112: INTRODUCTION TO WEB DEVELOPMENT
Program Number: Name	1120: COMMUNITY INTEGRATN
Department:	C.I.C.E.
Academic Year:	2022-2023
Course Description:	<p>HTML and CSS are the fundamental technologies for creating web interfaces. After a brief introduction to the World Wide Web, CICE students, with the assistance of a learning specialist, learn the HTML elements that are used in all web pages, including page layout elements, tables, forms, and more modern media elements for video and audio. Students also learn advanced styling techniques using CSS to give web sites custom layouts and appearances, including responsive design and CSS animation. Throughout the course, accessibility standards to make web sites usable to the widest possible audience are highlighted.</p> <p>Students use modern web browsers, GitHub, and Visual Studio Code to create working web sites.</p>
Total Credits:	4
Hours/Week:	4
Total Hours:	56
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>1120 - COMMUNITY INTEGRATN</p> <p>VLO 1 Integrate fully in academic, social and community activities.</p>
Essential Employability Skills (EES) addressed in this course:	<p>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p>



	EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.								
Course Evaluation:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.								
Other Course Evaluation & Assessment Requirements:	To successfully pass this course, the student must receive passing grades for both the Test and Evaluation portion of the class AND the Laboratory portion. Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail) 49% and below 0.00 CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. NR Grade not reported to Registrar's office. W Student has withdrawn from the course without academic penalty.								
Books and Required Resources:	Learn Web Development by MDN Publisher: MDN https://developer.mozilla.org/en-US/docs/Learn								
Course Outcomes and Learning Objectives:	Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes: <table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>1. Describe foundational web technology and use it to publish a basic web site</td> <td>1.1 Set up a development environment for building websites (text editor, version control) 1.2 Design web page content, themes, and layouts 1.3 Organize website files for easy understanding and maintainability 1.4 Describe and use file paths 1.5 Recognize HTML, CSS, & JavaScript and describe their purposes in a website 1.6 Create a very simple web page and publish it to a web server 1.7 Explain how a web page gets from a server to a user's browser window</td> </tr> <tr> <th>Course Outcome 2</th> <th>Learning Objectives for Course Outcome 2</th> </tr> <tr> <td>2. Describe HTML syntax</td> <td>2.1 Describe HTML syntax, and write custom HTML</td> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	1. Describe foundational web technology and use it to publish a basic web site	1.1 Set up a development environment for building websites (text editor, version control) 1.2 Design web page content, themes, and layouts 1.3 Organize website files for easy understanding and maintainability 1.4 Describe and use file paths 1.5 Recognize HTML, CSS, & JavaScript and describe their purposes in a website 1.6 Create a very simple web page and publish it to a web server 1.7 Explain how a web page gets from a server to a user's browser window	Course Outcome 2	Learning Objectives for Course Outcome 2	2. Describe HTML syntax	2.1 Describe HTML syntax, and write custom HTML
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Course Outcome 2	Learning Objectives for Course Outcome 2								
2. Describe HTML syntax	2.1 Describe HTML syntax, and write custom HTML								

	and structure, and create basic HTML documents	<p>2.2 Create valid HTML documents with the help of validation tools</p> <p>2.3 Markup web page content and layout using appropriate semantic elements</p> <p>2.4 Add meta data, stylesheets, and scripts to an HTML document</p> <p>2.5 Create SEO-friendly and accessible hyperlinks in an HTML document</p> <p>2.6 Describe the components of URLs</p> <p>2.7 Use in-browser developer tools to inspect and debug HTML</p>
	Course Outcome 3	Learning Objectives for Course Outcome 3
	3. Add multimedia to web pages in a responsive and accessible way	<p>3.1 Add responsive, accessible images, figures, video, and audio to a web page</p> <p>3.2 Adhere to copyright and licensing rules when using outsourced multimedia</p> <p>3.3 Manage the presentation of web page multimedia using appropriate element attributes</p> <p>3.4 Describe multimedia file formats</p> <p>3.5 Enable transcripts for video/audio on a web page</p> <p>3.6 Embed external content into a web page using iframes</p> <p>3.7 Explain the security concerns involved in using iframes</p> <p>3.8 Add vector graphics to a web page</p>
	Course Outcome 4	Learning Objectives for Course Outcome 4
	4. Add tables and forms to HTML documents	<p>4.1 Add accessible tables to HTML documents and structure them using HTML</p> <p>4.2 Explain when tables are appropriate</p> <p>4.3 Add web forms to HTML documents using appropriate form input and structural elements</p> <p>4.4 Explain form-server interaction and inspect using browser developer tools</p> <p>4.5 Describe security risks involved with using forms</p> <p>4.6 Describe the limitations in styling for HTML forms</p>
	Course Outcome 5	Learning Objectives for Course Outcome 5
	5. Describe CSS syntax and concepts, and apply basic styling to HTML documents	<p>5.1 Describe CSS syntax and write valid, well-formatted CSS with the help of validation tools</p> <p>5.2 Link stylesheets to a web page</p> <p>5.3 Describe and use the various CSS selectors and combinators</p> <p>5.4 Describe and use CSS classes, pseudo-classes, and pseudo-elements in HTML and stylesheets</p> <p>5.5 Determine browser support for CSS features using web tools and documentation</p> <p>5.6 Explain cascade, specificity and inheritance as they pertain to CSS rules</p> <p>5.7 Inspect and debug web page styling using in-browser developer tools</p> <p>5.8 Describe the CSS box model and manipulate it using appropriate declarations</p> <p>5.9 Apply backgrounds and borders to HTML elements</p>



	<p>5.10 Specify absolute or relative dimensions</p> <p>5.11 Specify colors using CSS</p> <p>5.12 Explain how HTML elements are sized, and manipulate size using appropriate declarations</p> <p>5.13 Style multimedia, forms, and tables</p> <p>5.15 Describe CSS methodologies such as BEM, OOCSS, and SASS</p>
Course Outcome 6	Learning Objectives for Course Outcome 6
6. Style website text using CSS	<p>6.1 Specify text styling using CSS</p> <p>6.2 Format HTML lists</p> <p>6.3 Format HTML hyperlinks</p> <p>6.4 Obtain web fonts for use in a website</p> <p>6.5 Use CSS writing modes and logical properties to enable non-right-to-left text</p>
Course Outcome 7	Learning Objectives for Course Outcome 7
7. Manipulate the layout of web pages consistently on the widest possible range of browsers and devices	<p>7.1 Describe the normal flow of layout in HTML documents</p> <p>7.2 Use the flexbox and grid modules to arrange HTML elements in rows, columns, or grids</p> <p>7.3 Change the flow of text around specific elements using the float and related properties</p> <p>7.4 Precisely control the position of HTML elements using the position property</p> <p>7.5 Use the responsive design approach to style web pages appropriately on any size of device</p> <p>7.6 Use media queries to specify when certain CSS rules apply</p> <p>7.7 Explain why the viewport meta tag is necessary in responsive design</p> <p>7.8 Support older browsers using appropriate fallbacks, feature queries, vendor-prefixes</p>

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Lab Assignments	40%
Quizzes	10%
Test 1	25%
Test 2	25%

CICE Modifications:

Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.



A. Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

B. Tests may be modified in the following ways:

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

C. Tests will be written in CICE office with assistance from a Learning Specialist.

The Learning Specialist may:

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

D. Assignments may be modified in the following ways:

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

The Learning Specialist may:

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

E. Evaluation:

Is reflective of modified learning outcomes.

NOTE: Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

Date: September 7, 2022

Addendum: Please refer to the course outline addendum on the Learning Management System for further



 information.