

COURSE OUTLINE: CSD112 - INTRO. TO WEB DEV.

Prepared: Rodney Martin Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CSD112: INTRODUCTION TO WEB DEVELOPMENT
Program Number: Name	2095: COMPUTER PROGRAMMING
Department:	COMPUTER STUDIES
Academic Year:	2022-2023
Course Description:	HTML and CSS are the fundamental technologies for creating web interfaces. After a brief introduction to the World Wide Web, students 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.
	Students use modern web browsers, GitHub, and Visual Studio Code to create working web sites.
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.
This course is a pre-requisite for:	CSD213
Vocational Learning	2095 - COMPUTER PROGRAMMING
Outcomes (VLO's) addressed in this course:	VLO 8 Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems.
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 10 Contribute to the development, documentation, implementation, maintenance and testing of software systems by using industry standard software development methodologies based on defined specifications and existing technologies/frameworks.
	VLO 11 Apply one or more programming paradigms such as, object-oriented, structured or functional programming, and design principles, as well as documented requirements, to the software development process.
Essential Employability Skills (EES) addressed in	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.
this course:	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.
	EES 4 Apply a systematic approach to solve problems.

	EES 5 EES 6	-	iking skills to anticipate and solve problems. nize, and document information using appropriate technology tems.
	EES 7 EES 8	•	and apply relevant information from a variety of sources. e diverse opinions, values, belief systems, and contributions of
	EES 10 EES 11	5	time and other resources to complete projects. for ones own actions, decisions, and consequences.
Course Evaluation:	Passing	Grade: 50%, D	
	A minimu for gradu		.0 or higher where program specific standards exist is required
Other Course Evaluation & Assessment Requirements:			se, the student must receive passing grades for both the Test class AND the Laboratory portion.
	A+ 90 - 1 A 80 - 89 B 70 - 79 C 60 - 69 D 50 - 59 F (Fail) 4 CR (Cree S Satisfa U Unsati X A temp	9% 3.00 9% 2.00 9% 1.00 9% and below 0.00 dit) Credit for diploma ictory achievement in sfactory achievement porary grade limited to	requirements has been awarded. field /clinical placement or non-graded subject area. in field/clinical placement or non-graded subject area. o situations with extenuating circumstances giving a student e requirements for a course.
	NR Grad	e not reported to Reg	
Books and Required Resources:	Learn We Publishe	eb Development by M	IDN
Course Outcomes and Learning Objectives:	Course	Outcome 1	Learning Objectives for Course Outcome 1
Learning Objectives.	web tec	ibe foundational hnology and use it to 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 and structure, and create basic HTML documents	 2.1 Describe HTML syntax, and write custom HTML 2.2 Create valid HTML documents with the help of validation tools 2.3 Markup web page content and layout using appropriate semantic elements 2.4 Add meta data, stylesheets, and scripts to an HTML document 2.5 Create SEO-friendly and accessible hyperlinks in an HTML document 2.6 Describe the components of URLs 2.7 Use in-browser developer tools to inspect and debug HTML
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Add multimedia to web pages in a responsive and accessible way	 3.1 Add responsive, accessible images, figures, video, and audio to a web page 3.2 Adhere to copyright and licensing rules when using outsourced multimedia 3.3 Manage the presentation of web page multimedia using appropriate element attributes 3.4 Describe multimedia file formats 3.5 Enable transcripts for video/audio on a web page 3.6 Embed external content into a web page using iframes 3.7 Explain the security concerns involved in using iframes 3.8 Add vector graphics to a web page
Course Outcome 4	Learning Objectives for Course Outcome 4
4. Add tables and forms to HTML documents	 4.1 Add accessible tables to HTML documents and structure them using HTML 4.2 Explain when tables are appropriate 4.3 Add web forms to HTML documents using appropriate form input and structural elements 4.4 Explain form-server interaction and inspect using browser developer tools 4.5 Describe security risks involved with using forms 4.6 Describe the limitations in styling for HTML forms
Course Outcome 5	Learning Objectives for Course Outcome 5
5. Describe CSS syntax and concepts, and apply basic styling to HTML documents	 5.1 Describe CSS syntax and write valid, well-formatted CSS with the help of validation tools 5.2 Link stylesheets to a web page 5.3 Describe and use the various CSS selectors and combinators 5.4 Describe and use CSS classes, pseudo-classes, and pseudo-elements in HTML and stylesheets 5.5 Determine browser support for CSS features using web tools and documentation 5.6 Explain cascade, specificity and inheritance as they pertain to CSS rules 5.7 Inspect and debug web page styling using in-browser

	developer tools 5.8 Describe the CSS box model and manipulate it using appropriate declarations 5.9 Apply backgrounds and borders to HTML elements 5.10 Specify absolute or relative dimensions 5.11 Specify colors using CSS 5.12 Explain how HTML elements are sized, and manipulate size using appropriate declarations 5.13 Style multimedia, forms, and tables 5.15 Describe CSS methodologies such as BEM, OOCSS, and SASS
Course Outcome 6	Learning Objectives for Course Outcome 6
6. Style website text using CSS	 6.1 Specify text styling using CSS 6.2 Format HTML lists 6.3 Format HTML hyperlinks 6.4 Obtain web fonts for use in a website 6.5 Use CSS writing modes and logical properties to enable non-right-to-left text
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	 7.1 Describe the normal flow of layout in HTML documents 7.2 Use the flexbox and grid modules to arrange HTML elements in rows, columns, or grids 7.3 Change the flow of text around specific elements using the float and related properties 7.4 Precisely control the position of HTML elements using the position property 7.5 Use the responsive design approach to style web pages appropriately on any size of device 7.6 Use media queries to specify when certain CSS rules apply 7.7 Explain why the viewport meta tag is necessary in responsive design 7.8 Support older browsers using appropriate fallbacks, feature queries, vendor-prefixes

	Process and	Evaluation Type	Evaluation Weight
Grading System:	Lab Assignments	40%	
	Quizzes	10%	
	Test 1	25%	
		Test 2	25%
Date:		June 1, 2022	
Addendum	n:	Please refer to the information.	course outline adder