Course Outline

WEB 110 HTML AND CSS

Course ID: 023721 **Academic Year:** 2024/25

Course Description:

This course is designed to provide students with an introduction to the techniques that are used to create content for the web. Students will develop a good understanding of HTML with an introduction to CSS. Topics include: Web design considerations, working with text, images, links, navigation, using tables for tabular data, the use of multimedia in web pages, and CSS to control presentation.

Pre-Requisites:	None	**Category:**	Vocational
Co-Requisites:	None	**Course Credits:**	4.00
Special Conditions:	None	**Academic Level:**	Credit (Post Sec)

Instructional Hours:	Classroom Instruction	30
	Laboratory/Workshops	30
	Other	0
	Total Hours	**60**

Academic Department:

Windsor: Zekelman School of Information Technology
Chair: Ruth Susannah
Chatham:
Chair:

Revised By: D. Takaki

Last Revision: 2024/06/07

Required Tools, Equipment, and Learning Resources:

Title: New Perspectives HTML5 and CSS: Comprehensive, 8th Edition
Author/s: Patrick Carey
Publisher: Cengage Learning
ISBN: 978-0-357-10714-0

Essential Employability Skills (EES):

	Description	Teach	Assess
1)	Communication: Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.	✔	✔
2)	Communication: Respond to written, spoken, or visual messages in a manner that ensures effective communication	✔	✔
3)	Numeracy: Execute mathematical operations accurately		
4)	Critical Thinking: Apply a systematic approach to solve problems	✔	✔
5)	Critical Thinking: Use a variety of thinking skills to anticipate and solve problems	✔	✔
6)	Information Management: Locate, select, organize, and document information using appropriate technology and information systems		
7)	Information Management: Analyze, evaluate and apply relevant information from a variety of sources		
8)	Interpersonal: Show respect for the diverse opinions, values, belief systems, and contributions of others		
9)	Interpersonal: Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals		
10)	Personal: Manage the use of time and other resources to complete projects		
11)	Personal: Take responsibility for one's own actions, decision and consequences		

Course Learning Outcomes (CLO):

Upon successful completion of this course, the student will be able to: (EKS = Embedded Knowledge and Skills)

- Create a simple web page containing basic elements of structure (CLO #1)
  EKS:
  - Describe the history of the World Wide Web and HTML
  - Apply attributes to add features to an HTML document

- Explain the effect of white space in HTML documents
- Name the basic elements of an HTML document
- Explain the purpose of the HTML grouping elements
- Create lists in HTML
- Identify tools for creating HTML documents
- Implement comments in HTML and CSS

- Design and create a basic website consisting of multiple web pages with internal and external hyperlinks (CLO #2)
  EKS:
  - Construct a website by linking files
  - Explain the parts of a URL
  - Compare absolute and relative pathnames and use them appropriately
  - Prepare meta elements to add data to HTML documents

- Apply graphic and web design skills and principles to develop and administer effective websites (CLO #3)
  EKS:
  - Explain the history of CSS
  - Identify the parts of a CSS style rule
  - Select HTML elements using CSS selectors
  - Determine the appropriate use for external, embedded, and inline styles
  - Recognize the effect of style cascade
  - Show how style inheritance applies
  - Give examples of pseudo-classes and pseudo-elements
  - Practice layout design using floating elements
  - Examine methods of positioning objects with absolute, relative, and fixed positioning
  - Discuss the use of overflow and clipping
  - Organize positioned elements using z-index

- Formulate websites that are compliant with web standards (CLO #4)
  EKS:
  - Compare XHTML and HTML5
  - Construct columnar layouts
  - Practice progressive enhancement when using new features
  - Describe the CSS box model
  - Integrate the use of a reset style sheet

- Use the display style to change layout

- Enhance web pages and websites though the use of fonts, colour, graphics, and multimedia (CLO #5)
  EKS:
  - Utilize style sheets to improve the presentation of HTML
  - Apply CSS styling text and lists
  - Modify the appearance of backgrounds using CSS
  - Give examples of the various ways to declair colours in CSS
  - Integrate images in HTML documents
  - Integrate multimedia in web pages
  - Compare the use of various MIME types
  - Use HTML5 audio and video elements
  - Assess the appropriate use of Fash and Java in web pages

- Create web pages that include appropriate use of tables for tabular data (CLO #6)
  EKS:
  - Implement web tables for tablular data
  - Manipulate the presentation of tables using CSS
  - Apply table styles to other elements

- Develop interactive web pages using form. (CLO #7)
  EKS:
  - Design web forms for data collection
  - Prepare field sets in web forms
  - Apply CSS styling web forms
  - Use default values and placeholders in web forms
  - Give examples of HTML5 form field data types
  - Implement various types of form buttons
  - Utilize form data validation
  - Describe the process for submitting web form data

- Apply well-formed and valid HTML and XHTML (CLO #9)
  EKS:
  - Render an HTML document in a browser
  - Choose the best character sets for the project
  - Structure a document using HTML tags

Teaching/Learning Activities:

Discussion (large/small group, online disc. board)

Interactive Lecture
Details: Demonstrations and assignments

Labs/Computer Labs

Lecture

Assessment:

Standard/Traditional Delivery

- Assignments 30.00%

Frequency: 10
Description: Case Study Problems
Outcomes Assessed: 1, 2, 3, 4, 5, 6, 7, 9, 10
EES Assessed: 1, 2, 4, 5, 6, 7

- Test 1 20.00%

Frequency: 1
Description: Case Study Problem/Multiple Choice
Outcomes Assessed: 1, 2, 9, 10
EES Assessed: 4, 5, 7

- Test 2 20.00%

Frequency: 1
Description: Case Study Problem/Multiple Choice
Outcomes Assessed: 3, 4, 5, 9, 10
EES Assessed: 4, 5, 7

- Test 3 20.00%

Frequency: 1
Description: Case Study Problem/Multiple Choice
Outcomes Assessed: 4, 6, 7, 9
EES Assessed: 4, 5, 7

- Weekly Quizzes 10.00%

Frequency: 10
Description: Questions may include Case Study Problems and/or /Multiple Choice Questions.

100%

Note: The assessment listed in this outline represents the planned assessment method for this course. Unanticipated conditions during the delivery of the course may necessitate changes to the planned assessment. Students will receive reasonable advance notice should any changes be necessary.

On-Line Delivery

- Assignments 30.00%

Frequency: 7-10
Description: Case Study Problems
Outcomes Assessed: 1, 2, 3, 4, 5, 6, 7, 9, 10
EES Assessed: 1, 2, 4, 5, 6, 7

- Project 1 30.00%

Frequency: 1
Description: Students will plan and develop a small web page that implements basic HTML and CSS. Students are required to generate valid HTML markup and organized and appropriate CSS to create the page.
Outcomes Assessed: 1, 2, 3, 5, 9, 10
EES Assessed: 4, 5, 7

- Project 2 30.00%

Frequency: 1
Description: Students will plan and develop a small web page that implements more complex HTML elements (form elements, tables) and CSS. Students are required to generate a complete page with valid markup and organized and appropriate CSS.
Outcomes Assessed: 3, 4, 5, 6, 7, 9
EES Assessed: 4, 5, 7

- Weekly Quizzes 10.00%

Frequency: 10
Description: Quizzes may include multiple-choice, and/or true/false type questions.
Outcomes Assessed: 1, 2, 3, 4, 5, 6, 7, 9, 10
EES Assessed: 5

100%

Note: The assessment listed in this outline represents the planned assessment method for this course. Unanticipated conditions during the delivery of the course may necessitate changes to the planned assessment. Students will receive reasonable advance notice should any changes be necessary.

Grading:

A = 80% - 100.0%
B = 70% - 79%
C = 60% - 69%
D = 50% - 59%
F = 0% - 49%

Course Content:

See EKS statements.

"Academic misconduct, including cheating of any form, will not be tolerated. Consequences may include, but are not limited to, a warning, a grade of "0" on the assignment/test/examination, or a failing grade in the course."

(Code of Students Rights and Responsibilities: Section 7.1.6)

All students and employees of this College have a right to study and work in an environment that is free from harassment and discrimination.

Accommodation Statement

The College will provide supports and services to all students with disabilities, both temporary and permanent, with valid supporting documentation. Interim accommodation requests will be received in good faith and can be provided pending receipt of medical documentation. Retroactive accommodations will be considered based on the unique circumstances of the individual matter. The College will give all Human Rights Code-related requests for accommodation meaningful consideration.

Procedure: The student is responsible to meet with a counsellor in Accessibility Services to discuss their functional limitations and accommodation needs and provide Accessibility Services with supporting documentation. Students are not required under the Ontario Human Rights Code to disclose their disability diagnosis (with the exception of Learning Disabilities) to receive accessibility supports and services and/or academic accommodations. Students are encouraged to meet with a counsellor prior to the start of a semester to provide information and arrange accommodations.