Virginia Western Community College
ITD 110
Web Page Design I

Prerequisites
None

Course Description
Stresses a working knowledge of web site designs, construction, and management using HTML or XHTML. Includes headings, lists, links, images, image maps, tables, forms, and frames.

Semester Credits: 3   Lecture Hours: 3   Lab/Clinical/Internship Hours: 0

Required Materials

Textbook:
Head First HTML and CSS, Second Edition, O'Reilly, copyright 2012, Author Elisabeth Freeman and Eric Freeman, ISBN 978-0-59-615990-0

Other Required Materials:
Notepad ++, Brackets or other text editor (freeware).   Some photo editing software (freeware)

Course Outcomes

At the completion of this course, the student should be able to:

- Describe the basics of web design
- Describe the evolution of the Internet and the web
- Be able to format text
- Be able to hyperlink internally and externally on web pages
- Apply the concepts of web color
- Be able to pick appropriate web graphics
- Be able to adjust, crop, and modify graphics for web use
- Describe the concepts of HTML forms and their widgets
- Be able to work with web page tables
- Use and apply cascading style sheets
- Be able to control web page styling through style sheets
- Use and apply the fundamentals of inline versus block elements

Topical Description

Chapter 1: The Language of the Web
      HTML Basics
      Tags
      Intro to Style
Chapter 2: Meeting the "HT" in HTML
      Working with Hyperlinks
      Attributes
      Relative vs Absolute references
Chapter 3: Web Page Construction
      Planning
      Structure and Meaning
      Block Level vs Inline tags
      Void Elements
      Lists
      Nesting
Chapter 4: A Trip to Webville
      Web Hosting and Domain Names
      FTP
      HTTP
      Absolute path
      Default pages
      Link to external websites
      Open Links in new windows
      Internal Links
Chapter 5: Meeting the Media
      Working with Images
      Gifs, Pngs, and Jpgs
      Transparency
      Resizing Images
      Using Thumbnails
Chapter 6: Getting Serious with HTML
      History
      Different versions of HTML
      DOCTYPE
      XHTML
      Intro to HTML5
      Validation of Web Pages
Chapter 7: Adding a Little Style
      Getting Started with CSS
      Basic Selectors
      Descendant Selectors
      Internal stylesheet
      External stylesheet
      Inheritance

Classes
CSS validation
Chapter 8: Expanding Your Vocabulary
Common CSS properties
Color in CSS
Chapter 9: Getting Intimate with Elements
CSS Box Model
Margin
Padding
Border
Media Queries
Chapter 10: Advanced Web Construction
Divs
Spans
Specificity
Cascade
Calculate the width of CSS box
CSS Shorthand
Pseudo Classes
Chapter 11: Arranging Elements
CSS Layouts
Chapter 12: Modern HTML
New HTML 5 Tags
Chapter 13: Getting Tabular
Working with HTML tables
Chapter 14: Getting Interactive
Working with HTML Forms

Notes to Instructors

- none