

Revised Fall 2016

ITD 110

Web Page Design I

COURSE OUTLINE

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/Recitation Hours:** 0

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Course Objectives

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

This course provides an introduction to web page design.

- 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



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Required Course Materials:

Notepad ++, Brackets or other text editor (freeware)
Some photo editing software (freeware)

Textbook:

Basics of Web Design HTML5 and CSS3, 3rdEdition, Pearson Publications, copyright 2016
Author Terry Felke-Morris, Pearson Publications, ISBN 978-0-13-397074-6

The following supplementary materials are available:

1. Safari Online is available for students to view other Java text and reference books online for free
2. Internet searches are a fundamental source for auxiliary materials on Web design
3. Video movies provided by the instructor.

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Topical Description: (Outline chapters and sections to be covered in the book – may include timeline)

Chapter 1: Internet and Web Basics

Web Standards and Accessibility

Web browsers and web servers

HTML Overview

Chapter 2: HTML Basics

Heading, paragraph, blockquote, phrase elements

Ordered and unordered lists, description lists

Hyperlinks

Chapter 3: Web Design Basics

Understanding your audience

Principles of Visual Design

Design for Accessibility

Wireframes and page layout

Chapter 4: Cascading Style Sheet Basics

CSS Overview

Configuring inline and embedded CSS
CSS selectors and declarations

Chapter 5: Graphics and Text Styling Basics

Web Graphics

Image hyperlinks

Configuring background images

CSS Text properties

Image maps

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Chapter 6: More CSS Basics

- Width and Height with CSS

- The box model

- Margin, padding, borders with CSS

CSS3 Opacity, color and gradients

Chapter 7: Page Layout Basics

- Normal Flow

- Float

- Basic 2-column layout

- Vertical and Horizontal navigation with lists

Chapter 8: More on links, layout and mobile

- Relative linking

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- Figure and figcaption elements
- Floating figures
- HTML5 compatibility with older browsers
- Mobile web design
- CSS3 media queries

Chapter 9: Table Basics

- Table overview
- Table rows, cells, and headers
- Style a table with CSS
- CSS3 Structural pseudo-classes
- Configure table sections

Chapter 10: Form Basics

- Form Overview
- Text box
- Submit button, reset button
- Check box and radio button
- Server-side processing
- HTML5 Text form controls, datalist element, slider and spinner controls
- HTML Calendar and Color-well controls

Chapter 11: Media and Interactivity Basics

- Plug-ins, containers and codecs
- Configure audio and video
- HTML5 Audio and Source Elements
- HTML5 Video and Source Elements
- CSS3 Transform property, transition property

Chapter 12: Web Publishing Basics

- Register a Domain name
- Choose a web host
- Publish with FTP
- Search engine submission and optimization
- Accessibility and usability testing



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