

WEB 210: WEB DESIGN

COURSE DESCRIPTION:

Prerequisites: WEB 110

Corequisites: None

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional websites.

Course Hours per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to:

- A. Create web pages using HTML5 and CSS following industry standard web design techniques.
- B. Design web sites to meet strategic goals.
- C. Create accessible and responsive web sites.

OUTLINE OF INSTRUCTION:

- I. HTML5 and CSS
 - A. Basic web page code and style review
- II. Foundations of Responsive Design
 - A. History and Reasons for Responsive Design
 - B. Responsive Content Strategy
- III. Creating Responsive Websites
 - A. Page Structure, Viewport, Clean Semantic HTML
 - B. CSS for Responsive Sites
 - C. The CSS Cascade
- IV. Multi-Device Layout & Media Queries
 - A. The Box Model
 - B. Fluid Page Measurements
 - C. Review Static, Relative, Absolute, Fixed & Float Positioning
 - D. New Strategies: Inline-Block, CSS Shapes, CSS Grid
 - E. Selecting Media Query Breakpoints
 - F. Responsive Images
- V. Responsive Workflow

- A. Strategy & Planning
- B. Layout & Prototypes
- C. Mobile First
- D. Responsive Design Tools
- E. User Experience
- F. Device Agnostic Design
- G. Touch
- H. Accessibility

VI. Responsive Design Features

- A. Typography
- B. Navigation and Header Layout
- C. Performance

VII. Responsive Website Production

- A. Plan & Produce Content
- B. Design & Prototype
- C. Code & Style
- D. Post Website Online