

## Department:

Computer Support Technology

## Course Description:

This course is designed to introduce students to web design using HTML5 and CSS3. Concepts discussed include understanding HTML/HTML5, responsive web design, how to structure web pages using both HTML and CSS, how to use elements such as tables and forms, and how to add multimedia to create dynamic and engaging web pages.

## Course Competencies:

Upon completion of the course, the student should be able to:

1. Use a text editor to create simple web pages.
2. Use a text editor to create Cascading File Sheet (CSS) files.
3. Design and create appropriate layouts for web pages using wire frames.
4. Design and create appropriate layouts for web pages using the CSS box method.
5. Understand the steps necessary to upload and maintain web sites.
6. Discuss how languages such as JavaScript and jQuery enhance web pages.
7. Discuss third-party development tools, and how to use them.

## Course Content:

- A. The Essential Concepts and Skills
  1. Introduction to web development
  2. How to code, test, and validate a web page
  3. How to use HTML to structure a web page
  4. How to use CSS to format the elements of a web page
  5. How to use the CSS box model for spacing, borders, and backgrounds
  6. How to use CSS for page layout
  7. How to work with lists, links, and navigation menus
  8. How to use Responsive Web Design
- B. Page Layout and Responsive Web Design
  1. How to use Flexible Box Layout for page layout and RWD
  2. How to use Grid Layout for page layout and RWD
- C. More HTML and CSS Skills as You Need Them
  1. How to work with images and icons
  2. How to work with tables
  3. How to work with forms
  4. How to add audio and video to your website
  5. How to work with fonts and printing
  6. How to use CSS3 transitions, transforms, animations, and filters
- D. Web Design and Deployment
  1. How to design a website
  2. How to deploy a website on a web server
- E. Other Skills for Professional Web Developers
  1. How JavaScript and jQuery are used to enhance web pages

## 2. When and how to use third-party development tools

### Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

### Instructional Materials:

Textbooks: Boehm, A. & Ruvalcaba, Z. (2018). *Murach's HTML5 and CSS3* (4<sup>th</sup> ed.). Fresno, CA: Mike Murach & Associates. ISBN-13: 978-1943872268

#### **Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

#### **A Note on Harassment, Discrimination and Sexual Misconduct**

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).