

WEB DEVELOPMENT AND DESIGN, Certificate - 1450

Engineering, Trades & Computer Technologies Department

CIP Code: 11.0801

The Web Development and Design certificate provides students with the skills and knowledge necessary to have a rewarding career designing and developing professional websites and applications. Students gain a foundation in website creation, web design, multimedia, application development and various web technologies and are able to select some of their coursework from web and career-focused electives. This program may be completed entirely through asynchronous instruction.

Career Opportunities

Graduates may obtain positions within a multitude of businesses, government agencies and web consulting firms as a Web Designer, Web Developer, Front-End Developer/Designer, Back-End Developer, Full-Stack Developer, Web Interactive Media Specialist, Web Producer, Web Content Writer, Web Application Developer, Programmer and other related positions. In addition, completed coursework from this certificate may be articulated into HACC's Web Design and Development AAS, should a student wish to continue their studies. (*SOC Code: 15-1150 Computer Support Specialists*)

Competency Profile

This curriculum is designed to prepare students to:

- Create web pages using HyperText Markup Language (HTML), Cascading Style Sheets (CSS) and JavaScript technologies
- Build websites with a Content Management System (CMS)
- Design websites and web graphics that are visually attractive and engaging
- Develop web and mobile applications that are dynamic, interactive and data-driven

PROGRAM REQUIREMENTS (TOTAL CREDITS = 30)

| General Education | Major Requirements | | Other Required Courses | |
|-------------------|---|-----------|------------------------|----------|
| | WEB 101 Intro to Web Design and Development | 3 | WEB Elective* | 3 |
| | WEB 110 Website Creation & CMS | 3 | Career Elective** | <u>3</u> |
| | WEB 125 HTML and CSS | 3 | | 6 |
| | WEB 127 Advanced HTML and CSS | 3 | | |
| | WEB 130 Graphics & Multimedia Fundamentals | 3 | | |
| | WEB 133 Design Fundamentals | 3 | | |
| | WEB 143 Development Fundamentals | 3 | | |
| | WEB 240 JavaScript Programming | <u>3</u> | | |
| | | 24 | | |

*Students are to select their **Web Elective** from the following: Any WEB 120-299.

Students are to select their **Career Elective from the following: ART 176; CPS 113 or CIS 239-264; WEB 140-299.

Note: Students must achieve a collective average GPA of 2.0, or higher to graduate.

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

| Fall Semester I | | Spring Semester I | |
|-----------------|---|-------------------|---|
| WEB 101 | 3 | WEB 127 | 3 |
| WEB 110 | 3 | WEB 133 | 3 |
| WEB 125 | 3 | WEB 240 | 3 |
| WEB 130 | 3 | WEB Elective* | 3 |
| WEB 143 | 3 | Career Elective** | 3 |