

## WEB DEVELOPMENT AND DESIGN, Certificate - 1450

Engineering & Technology Department

CIP Code: 11.0801

The Web Development and Design certificate program provides skills and knowledge needed for a rewarding career in designing and developing professional websites and applications. All students gain a foundation in website development and design, various web technologies, and multimedia. Students are able to select from one of two concentrations: **Web Application Development** or **Interactive Web Media**. Graduates of the **Web Application Development** concentration emphasize their studies on building interactive, data-driven web sites and mobile applications. Graduates of the **Interactive Web Media** concentration are able to focus on making creative content using rich media. The complete program is available through Virtual Learning.

### Career Opportunities

Graduates may obtain positions with many different businesses, government agencies, and web consulting firms as Web Developers, Web Designers, Web Interactive Media Specialists, Web Producers, Web Content Writers, Web Application Developers, programmers, and other related positions. (SOC Code: 15-1150 Computer Support Specialists)

Link to occupational profiles on O\*NET: <http://www.onetcodeconnector.org/>

Application and admission information: <http://www.hacc.edu/Admissions/Apply/index.cfm>

### Competency Profile

This curriculum is designed to prepare students to:

- Design high quality web pages for a variety of uses
- Develop web applications that integrate server programming, databases, and markup languages for business and electronic commerce
- Publish websites with effective design and content for various platforms
- Create interactive and multimedia content for Web use
- Develop websites using modern standards for HyperText Markup Language (HTML), Cascading Style Sheets (CSS), and JavaScript
- Create programs for both web and mobile applications
- Work individually and as a team members on website projects

### PROGRAM REQUIREMENTS (TOTAL CREDITS = 30)

General Education	Major Requirements	Other Required Courses
	WEB 101 Web Program Introduction	3
	WEB 110 Web Site Publishing	3
	WEB 125 HTML and CSS	3
	WEB 130 Multimedia Fundamentals	3
	WEB 133 Design Fundamentals	3
	WEB 143 Development Fundamentals	3
	WEB 240 JavaScript Programming	3
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<b>Interactive Web Media Concentration</b>	<b>Web Application Development Concentration</b>	
WEB 135 Raster Imaging & Photography	CIS 245 Database Programming	3
WEB 138 Vector Imaging & SVG	WEB 245 Advanced Development	3
WEB 225 Responsive Design & Typography	WEB 253 Intro to Windows Development	3
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Note: Students must achieve a collective average GPA of 2.0, or higher, in all required WEB program and WEB concentration courses in order to graduate.

### RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

#### Interactive Web Media Concentration

Fall Semester I	Spring Semester I
WEB 101 3	WEB 133 3
WEB 110 3	WEB 135 3
WEB 125 3	WEB 138 3
WEB 130 3	WEB 225 3
WEB 143 3	WEB 240 3

#### Web Application Developer Concentration

Fall Semester I	Spring Semester I
WEB 101 3	CIS 245 3

WEB 110	3	WEB 133	3
WEB 125	3	WEB 240	3
WEB 130	3	WEB 245	3
WEB 143	3	WEB 253	3

*Please see the College's website at <http://www.hacc.edu/ProgramsandCourses/Web-Development-and-Design-1450.cfm> for the most current Gainful Employment Information.*