

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 may choose electives from either **Interactive Web Media** or **Web Application Development** courses. **Interactive Web Media** courses focus on making creative content using rich media. **The Web Application Development** courses focus on building interactive, data-driven websites and mobile applications. Courses in the certificate can count towards the AAS degree, should students wish to continue their studies. 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)**

Competency Profile

This curriculum is designed to prepare students to:

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

PROGRAM REQUIREMENTS (TOTAL CREDITS = 30)

General Education	Major Requirements		Other Required Courses	
	WEB 101 Web Program Introduction	3	Program Specific Electives*	3
	WEB 110 Web Site Publishing	3	WEB Studies Elective**	<u>3</u>
	WEB 125 HTML and CSS	3		6
	WEB 130 Multimedia Fundamentals	3		
	WEB 133 Design Fundamentals	3		
	WEB 135 Raster Imaging & Photography (or)	3		
	WEB 245 Advanced Development	(3)		
	WEB 143 Development Fundamentals	3		
	WEB 240 JavaScript Programming	<u>3</u>		
		24		

*Students are to select courses from the following: ART; CIS; CISE; CNT; CPS; ELEC; ENGL 101, 110; WEB. Students should select CIS 105 if they wish to take CIS 140 as an elective.

**Students are to select courses from the following: CIS 140, 245; or any WEB courses 130-283. Most Web Studies electives have prerequisites.

Note: Students must achieve a collective average GPA of 2.0, or higher, in all required WEB program courses in order 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 133 3
WEB 110 3	WEB 143 3
WEB 125 3	WEB 135 or 245 3
WEB 130 3	WEB 240 3
Program Elective* 3	Web Studies Elective** 3