

WEB DEVELOPMENT AND DESIGN, Associate in Applied Science Degree - 1816

Engineering, Trades & Computer Technologies Department
CIP Code: 11.0801

The Web Development and Design AAS degree 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, various web technologies and effective communication. Coursework allows students to select electives that specialize in either *web design* or *development*. *Web design electives* provide a combination of graphic editing, user experience and user interface design, as well as, front-end development used to create visually appealing and usable websites. *Web development electives* entail programming to build data-driven websites and mobile applications. The program contains a capstone project, which provides students the opportunity to create a professional website for a client, as well as a portfolio of their work. 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.

Competency Profile

This curriculum is designed to prepare students to:

- Build professional websites and web applications that optimize the user experience for various uses, platforms and accessibility
- Create web pages using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)
- Develop web applications using JavaScript code and technologies
- Manage web content 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 = 60)

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I (or)	3	WEB 101 Intro to Web Design & Development	3	Career Elective*	3
ENGL 110 Foundations of Professional Writing	(3)	WEB 110 Website Creation & Content Mgmt Sys	3	Free Elective**	1
COMM 101 Effective Speaking (or)	3	WEB 125 HTML & CSS	3	Technical Elective***	3
COMM 203 Interpersonal Communication	(3)	WEB 127 Advanced HTML & CSS	3	Web Electives****	9
Humanities & Arts Core Elective	3	WEB 130 Graphics & Multimedia Fundamentals	3		16
Mathematics or Science Core Elective	3	WEB 133 Design Fundamentals	3		
Social & Behavioral Sciences Core Elective	3	WEB 143 Development Fundamentals	3		
First-Year-Seminar Elective	1	WEB 240 JavaScript Programming	3		
Wellness Elective	1	WEB 268 Web Program Capstone (or)	(3)		
	17	WEB 270 Cooperative Work Experience in Web	3		
			27		

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

Students are to select their **Free Elective from the following: Any course 100-299. Students may opt to take either a 4-credit course or a 3-credit FYS Elective in place of this 1-credit Free Elective.

***Students are to select their **Technical Electives** from the following: Any WEB; BUSI; CIS; CISE; CNT; CPS; DAT or MGMT; MKTG; ART 105, 108 or GIS 141.

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

Note: Students must achieve a collective average GPA of 2.0, or higher, in the following WEB courses: WEB 101, 110, 125, 127, 130, 133, 143, 240, 268 and 270.

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		Fall Semester II		Spring Semester II	
FYS Elective	1	Free Elective**	1	COMM 101 or 203	3	Career Elective*	3
WEB 101	3	Math/Science Core Elective	3	ENGL 101 or 110	3	Humanities/Arts Core Elective	3
WEB 110	3	WEB 127	3	Technical Elective***	3	Social/Behavioral Science Core Elective	3
WEB 125	3	WEB 133	3	Web Electives****	6	Web Elective****	3
WEB 130	3	WEB 240	3				
WEB 143	3	Wellness Elective	1				