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

Technology and Industry Department
CIP Code: 11.0801

***ATTENTION:* At this time, the College is not accepting new students into the Web Development and Design AAS program.**

The Web Development and Design AAS degree provides students with the skills and knowledge necessary to have a rewarding career in the design and development of professional websites and applications. Students gain a foundation in website creation, web design, multimedia, application development, artificial intelligence (AI), various web technologies and effective communication. Web design involves graphic editing, user experience and user interface (UI/UX) design. Front-End design and development involves creation of visually appealing, usable websites and Content Management Systems (CMS). Web development utilizes programming and AI 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 distance education.

Career Opportunities
Graduates may obtain positions within a multitude of businesses, government agencies and web consulting firms as a Web Designer, Web Developer, Web AI Designer / Developer / Specialist, 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 applications for various uses, platforms and accessibility
- Create Web pages using HyperText Markup Language (HTML), Cascading Style Sheets (CSS) and JavaScript technologies
- Manage web content with a Content Management System (CMS) and Artificial Intelligent (AI)
- Design websites, Web graphics and UI/UX 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	
COMM 101 Effective Speaking **(or)**	3	WEB 101 Intro to Web Design & Development	3	Career Elective*	3
COMM 203 Interpersonal Communication	(3)	WEB 110 Website Creation & Content Mgmt Systems	3	Free Elective**	1
ENGL 101 English Composition I **(or)**	3	WEB 125 HTML & CSS	3	Technical Elective*^	3
ENGL 110 Foundations of Professional Writing	(3)	WEB 130 Graphics & Multimedia Fundamentals			**7**
First-Year-Seminar Elective	1	WEB 133 Design Fundamentals	3		
Humanities & Arts Core Elective	3	WEB 143 Development Fundamentals	3		
Mathematics **or** Science Core Elective	3	WEB 211 Content Management System Design & Development	3		
Social & Behavioral Sciences Core Elective	3	WEB 234 Advanced Web Design	3		
Wellness Elective	1	WEB 240 JavaScript Programming	3		
	17	WEB 245 Advanced Development	3		
		WEB 249 Artificial Intelligence Systems	3		
		WEB 268 Web Program Capstone **(or)**	3		
		WEB 270 Cooperative Work Experience in Web	(3)		
			36		

Students are to select **Career Electives from the following: ART 105, 108, 176; CPS 113; CIS 200-270; any DAT; MIS; any WEB course.*
*****Free Elective**: Students may opt to take either a 4-credit course or a 3-credit FYS Elective in place of this 1-credit Free Elective requirement.*
^Students are to select their **Technical Electives from the following: ART 105 or 108; BUSI; CIS; CNT; CPS; CYBR; DAT or MGMT; MKTG; MIS; GIS 141; any WEB course.*
***Note:** Students must achieve a collective average GPA of 2.0, or higher, in the required WEB courses 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**		**Fall Semester II**		**Spring Semester II**	
FYS Elective	1	Free Elective**	1	COMM 101 **or** 203	3	Career Elective*	3
WEB 110	3	Math/Science Core Elective	3	ENGL 101 **or** 110	3	Humanities/Arts Core Elective	3
WEB 125	3	WEB 133	3	Technical Elective*^	3	Social/Behavioral Science Core Elective	3
WEB 130	3	WEB 211	3	WEB 234	3	WEB 245	3
WEB 143	3	WEB 240	3	WEB 249	3	Web 268 **or** 270	3
		Wellness Elective	1				