

PROGRAM OF STUDY

Web Development Associate in Science

The goal of the A.S. degree in Web Development is to provide students with the broad educational background required to transfer to a four-year school in a related discipline and the opportunity to acquire training necessary to meet the demand for skilled personnel to develop and maintain websites for private corporations, non-profit or government organizations, and individuals. The need for individuals who possess web development skills has grown exponentially in recent years due to convergence of technology on the Internet and the prominent role web sites play in the daily activities of businesses and other organizations.

The web curriculum is a vocational program that reflects the multi-faceted nature of the competencies required to become a professional web developer. The program is, therefore, interdisciplinary and draws from courses offered in both the Computer Applications and Web Technologies (CAWT) and Computer Science Departments. Cooperative Work Experience Education is also an essential component included in the sequence of required classes.

The curriculum is designed to provide students with a strong and balanced foundation in aspects of both front- and back-end web development. Students will develop proficiency with markup languages, cascading style sheets, web authoring software, database connectivity, image and search engine optimization, client- and server-side programming, e-commerce considerations, and the entire web life-cycle development process.

Student Learning Outcome:

Demonstrate proficiency in the core knowledge and skills needed to develop and implement dynamic, interactive websites.

Program Requirements:

		Units
CAWT 074	Introduction to Photoshop	1.5 - 0
CAWT 076	Introduction to WordPress	1.5 - 0
CAWT 160	Microsoft Access I	3 - 0
CAWT 170	Web Site Development I	3 - 0
CAWT 171	Web Site Development II	3 - 0
CAWT 173	Web Development: Dreamweaver	3 - 0
CAWT 174	Web Prototyping and Images	3 - 0
CMPSCI 190	Web Programming: Javascript	3 - 0
CMPSCI 192	PHP Programming	3 - 0
CWE 188	Cooperative Work Experience Education	1

Plus ten units from the following:

		Units
CAWT 082	Adobe Acrobat	1.5 - 0
CAWT 115	Business English	3 - 0
CAWT 116	Business Communications	3 - 0
CAWT 161	Microsoft Access II	3 - 0
CMPNET 154	CCNA R&S: Introduction To Networks	3.5 - 0
CMPSCI 111	Introduction to Algorithms & Programming/Java	3 - 0
CMPSCI 111L	Introduction to Algorithms and Programming Lab	1 - 0
CMPSCI 235	'C' Programming	3 - 0
CMPSCI 236	C++ Object Oriented Programming	3 - 0
GMD 101	Introduction to Visual Communication	3 - 0
GMD 144	Graphic Design I	3 - 0
GMD 145	Type and Typography	3 - 0
GMD 177	Web Page Design I	3 - 0
GMD 277	Web Page Design II	3 - 0
BUS 190	Principles of Electronic Commerce	3 - 0
BUS 192	E-Business Strategy	3 - 0

Total Units

35

