

## Associate in Science Degree: Web Development

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.

### Degree Student Learning Outcome:

Students will be able to demonstrate proficiency in the core knowledge and skills needed to develop and implement dynamic, interactive websites.

### Program Requirements:

Units Required: 34

		Units:
CAWT-074	Introduction to Photoshop - Brief	1.5
CAWT-076	Introduction to WordPress	1.5
CAWT-160	Microsoft Access I	3.0
CAWT-170	Website Development I	3.0
CAWT-171	Website Development II	3.0
CAWT-173	Web Development: Dreamweaver	3.0
CAWT-174	Web Prototyping and Images	3.0
CMPSCI-190	Web Programing: Javascript	3.0
CMPSCI-192	PHP Programing	3.0

Plus ten units from the following:

CAWT-082	Adobe Acrobat - Brief	1.5
CAWT-115	Business English	3.0
CAWT-116	Business Communications	3.0
CAWT-161	Microsoft Access II	3.0
CMNET-154	CCNA R&S: Introduction to Networks	3.5
CMPSCI-111	Introduction to Algorithms and 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
CWE-186CAWT	Cooperative Work Experience Education Computer Applications and Web Technologies (Unpaid)	1.0 – 4.0
CWE-188CAWT	Cooperative Work Experience Education Computer Applications and Web Technologies (Paid)	1.0 – 4.0