

Computer Specialist – Web Design and Development A.A.S. (CSW)

Prepares students for occupations such as a Web Designer and Developer in the information technology industry. Graduates will be prepared to participate in the development and support of enterprise-level electronic commerce websites using methodologies focused on the development of those sites without the use of pre-packaged software. Students will apply current versions of HTML, XHTML, CSS, JavaScript, Adobe Flash, and PHP with MySQL in the development of websites. Real-world projects are integrated throughout the program and effective project management techniques are used. Adobe Dreamweaver is presented as a tool to aid in the creation of websites.

Upon successful completion of this program, graduates will be able to:

- apply critical thinking, team building, and problem-solving skills.
- work effectively in teams to create websites using technologies presented in the curriculum.
- develop an electronic commerce business plan.
- apply effective design principles to create attractive, accessible, secure client-side and server-side websites.
- develop dynamic server-side websites that interact with Database Management Systems (DBMS) to process transactions effectively and securely.

First Semester		Credits
ART 107	Digital Design	3
CIS 105	Introduction to Computers and Applications	3
CIS 112	Computational Thinking and Programming Logic	3
CIS 180	Introduction to Project Management	3
ENG 105	Research and Composition	3
		15
Second Semester		
CIS 133	User Experience Design	3
CIS 141	Client-Side Scripting I	3.5
CIS 145	Systems Analysis and Design	3
CMN 120	Small Group Communication	3
Elective*	Mathematics	3-4
		15.5
Third Semester		
ART 128	Computer-Aided Logo and Advertising Design	3
CIS 111	Electronic Commerce	3
CIS 116	Dreamweaver	1
CIS 142	Client-Side Scripting II	2
CIS 255	The Database Environment	3.5
PSY 140	Introduction to Psychology	3
or SOC 150	Introduction to Sociology	3
		15.5
Fourth Semester		
ART 248	Web-Based Animation	3
CIS 207	Unix Server-Side Scripting	3
ENG 107	Writing in the Workplace	3
Elective*	Mathematics	3-4
Elective	Social Science/Humanities	3
		15
Credit Total		61

*Mathematics electives may include all courses from MAT 105 or higher with the exception of MAT 121.

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

RSS 099	Basic Skills Reading	3
RSS 100	Critical Reading	3
ENG 099	Basic Skills Writing	3
ENG 100	Fundamentals of Writing	3
MAT 090	Mathematical Literacy	6
ESL 251	English for Academic Purpose	6

(Required for ESL students only.)

Please note, taking gateway courses will increase your time for completion.