

COMPUTER INFORMATION SYSTEMS: WEB DEVELOPER - CERTIFICATE OF ACHIEVEMENT LEVEL 3

The department of Computer Information Systems (CIS) offers degrees and certificates in three major areas: Computer Programming, Network Administration and Web Developer. See the respective major sheets for additional information about the specific certificates and degrees. A grade of "C" or better is required in all certificate, major and major elective courses.

The Web Developer Certificate and Degree programs provide students with the skills necessary to design front-end applications for a Web site. It assumes basic programming skills so that students can design applications that search a web site, obtain interactive information from visitors to the site, implement push and pull technologies, client server interactions, and provide the benefits of having a dynamic, well-structured Web site. An Associate in Science and 2 levels of certificates are offered.

CAREER OPTIONS:

- Web Developer

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

- Recognize the components that constitute a computer information system. Identify various hardware, software, data, computer number systems, and procedures.
- Demonstrate understanding of the impact and application of computers in business, government, and social organizations. Students solve common business problems with computer applications and the internet.
- Receive and process written and oral technology related information. Students Interpret technology communication concepts including wired and wireless networks, servers and clients, users interfaces, operating systems, applications, utilities, and programming languages.
- Recognize the influence of the Internet on business and terms relating to the World Wide Web. Students perform the fundamental functions that operating systems and applications software provides. Students demonstrate skills in word processing, spreadsheets, presentation graphics, and use of Internet. Students will recognize a programming language and demonstrate steps involved in developing an application.
- Demonstrate the ability to work and interact effectively in teams consisting of individuals with differing interests, gender, global backgrounds and professions.
- Demonstrates ability to exercise professional, ethical responsibility in the use of technology in society.

Certificate Requirements

Course	Title	Credits
CIS 014A	Internet Principles and Protocols	3
CIS 020	XML Fundamentals	3
CIS 020A	Advanced XML	3
CIS 022	Database Technology	3

CIS 023	JavaScript Programming	3
CIS 023A	Advanced JavaScript Programming	3
CIS 024B	PHP Programming	3
CIS 041	Introduction to Computer Information Systems	3
CIS 047	Introduction to Web Development	3
CIS 060	Systems Analysis and Design	3
CIS 084	Java Programming	3
<i>Choose one of the following courses:</i>		
CIS 024A	Perl Programming	3
or CIS 024C	Python Programming	
Total Units		36