

AREA: Information Systems Technology:
Web Applications Development Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum is designed to provide skills to students in designing, building, testing and maintaining Web pages, links and interfaces to Web-enabled applications.

OCCUPATIONAL OBJECTIVES: The associate of applied science degree curriculum in information systems technology with a Web applications development specialization is designed for students who wish to seek full-time employment as a Web page designer and/or Web site developer. Tasks may include designing, building, testing and maintaining Web pages/applications interfaces and links; updating Web content and ensuring that site functions and design are not disrupted; building a Web site's interactive components; incorporating video, audio and animation into Web pages; providing documentation for maintenance, installation and troubleshooting; and/or compiling statistics related to utilization of a Web site.

TRANSFER GUIDELINES: Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer to a four-year college or university should explore opportunities with their faculty advisor.

RELATED CERTIFICATIONS: In addition to providing a foundation in Web design and development, this degree prepares students to obtain entry-level certifications such as the CIW Associate, Master CIW Designer and Master CIW Web Site Manager.

PROGRAM REQUIREMENTS: A Web applications developer must possess detailed knowledge of markup languages and different Web scripting languages, knowledge of graphics art packages, good written and verbal communications skills, familiarity with database operation, strong analytical and problem-solving skills and good interpersonal skills. These skills are an integral part of the information systems technology (IST) curriculum. The curriculum includes technical courses in information technology, business-related areas, general education and electives. Instruction is centered on theoretical concepts and practical, hands-on applications key to success in the Web application development field. Students are strongly encouraged to consult with their faculty advisor in planning their programs and selecting electives. Upon satisfactory completion of the program the graduate will be awarded the associate of applied science degree with a major information system technology with a Web applications development specialization.

SPECIAL NOTE (BRIDGE COURSES): This program

is designed for those students who have completed a variety of keyboarding and introductory computer applications courses at the high school level. A student who has not completed the recommended high school courses may enroll in the IST program by taking courses designed to bridge the gap. These courses are to be selected by consulting with an IST advisor and may include one or more of the following:

AST 101	Keyboarding	3 credits
ITE 115	Intro to Computer Applications and Concepts	3 credits

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITN 109	Internet and Network Foundations	3
MTH 151/152	Math for Liberal Arts ¹ (or MTH 163 or 271)	3
SDV 101	Orientation to the IT Professions	1
Total		16
Second Semester		
ENG 112	College Composition II	3
ITE 120	Principles of Information Systems	3
ITN 106	Microcomputer Operating Systems	3
ITP 100	Software Design	3
MTH 151/152	Math for Liberals Arts ¹ (or MTH 271 or 272)	3
	Approved social science elective ²	3
Total		18
Third Semester		
ECO 201/202	Principles of Macro/Microeconomics	3
ENG 115	Technical Writing	3
ITD 112	Designing Web Page Graphics	3
ITD 220	e-Commerce Administration	3
PED/HLT	Physical Education (or Health)	2
	Approved ITP ³	3-4
Total		17-18
Fourth Semester		
ITD 210	Web Page Design II	3
ITN 224	Web Server Management	3
ITP 225	Web Scripting Languages	3
ITP 251	Systems Analysis and Design	4
	Approved humanities elective ⁴	3
Total		16
Program Total		67-68

¹ Students planning to transfer to a four-year college are encouraged to take MTH 163 or MTH 271/272.

² Students may select social science elective from the approved list on page 51.

³ Student may select humanities elective from the approved list on page 50.

⁴ Students may select from ITN 120, ITN 224, ITN 261, ITN 262, ITP 112, ITP 120, ITP 132, ITP 160.