

COMPUTER INFORMATION SYSTEMS TECHNOLOGY

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These programs are for students who wish to seek employment in the computer field.

Certificate Requirements

The certificate programs are designed to prepare students for entry-level employment. Upon completion of the prescribed courses, the college awards a certificate. All course work in the certificate programs will apply to the corresponding Associate in Applied Science degree.

Prior to taking courses, the student should meet with an advisor and develop a plan for satisfying program requirements.

To be eligible for a certificate students must:

- Complete the following courses.
- Have a minimum 2.00 grade point average in Jefferson State courses.

Courses required for:

Computer Information Systems Technology Certificate

- Microcomputer Applications Option (STC C158)
- Computer Programming Option (STC C056)
- Networking Option (STC C160)
- Web Technologies Option (STC C213)

Note for all options: CIS 110 has been renumbered to CIS 150. CIS 273 has been renumbered to CIS 161.

Microcomputer Applications Option

Course	Title	Sem Hrs
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3
CIS 161	Introduction to Networking Communications	3
*Two Electives from:		6
OAD 125W	Word Processing (Word)	
CIS 113	Spreadsheet Software Applications (Excel)	
CIS 117	Database Management Software Applications (Access)	
Total Credit Hours		27

Computer Programming Option

Course	Title	Sem Hrs
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3
CIS 161	Introduction to Networking Communications	3
*Two Electives from:		6
CIS 251	C Programming (C++)	
CIS 212S	Visual Basic Programming (Visual Basic .Net)	
CIS 255	Java Programming	
Total Credit Hours		27

Networking Option

Course	Title	Sem Hrs
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic	3

	and Programming	
CIS 268	Software Support	3
CIS 269	Hardware Support	3
CIS 161	Introduction to Networking Communications	3
*Two Electives from:		6
CIS 275	Workstation Administration	
CIS 276	Server Administration	
CIS 277	Network Services Administration	
	Total Credit Hours	27

Web Technologies Option

<i>Course</i>	<i>Title</i>	<i>Sem Hrs</i>
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3
CIS 161	Introduction to Networking Communications	3
*Two Electives from:		6
CIS 207	Introduction to Web Page Development	
CIS 208	Intermediate Web Page Development	
CIS 250	E-Commerce	
	Total Credit Hours	27

CIS 130 Introduction to Information Systems is required for students without basic computer skills.

OAD 101 Beginning Keyboarding is required for students without basic keyboarding skills.

*To be chosen with the consent of a computer science advisor.

Associate in Applied Science Degree Requirements

This curriculum is designed to serve students planning to enter the field of computer information technology and those already employed who need specialized skills required by the computing industry. Options are available for concentrated study in microcomputer applications, computer programming, computer networking, or web technologies.

Check with your four-year institution for the transferability of courses in this program. This program is not designed to transfer to a four-year institution.

A student gains admission to the Associate in Applied

Science Program by completing the certificate program. All course work in the certificate programs will apply to the corresponding Associate in Applied Science degree.

Full-time students planning to complete the Associate in Applied Science degree should concurrently work towards completion of requirements from a chosen option and General Courses requirements. For example, each term, a full-time student should take two to three courses that meet requirements from the student's chosen option and two to three courses that meet requirements in the General Courses section.

Courses required for:

- Computer Information Systems Technology Degree
- Microcomputer Applications Option (AAS C158)
 - Computer Programming Option (AAS C056)
 - Networking Option (AAS C160)
 - Web Technologies Option (AAS C213)

General Courses(24 hours)

<i>Course</i>	<i>Title</i>	<i>Sem Hrs</i>
ENG 101	English Composition I	3
SPH 107	Fundamentals of Public Speaking or	3
SPH 106	Fundamentals of Oral Communication	
MTH 100	Intermediate College Algebra	3
	Lab Science Elective: (ASCI)	4
	(astronomy, biology, chemistry, physical science, physics)	
	Social and Behavioral Science Elective: (ASOC)	3
	(anthropology, geography, history, economics, political science, sociology, psychology)	
	Humanities and Fine Arts Elective: (AHUM)	3
	(art, humanities, religion, theatre, music, philosophy, foreign language, literature)	
	One elective from:	3
	ACT 246Q (OAD 137), ACT 249, ACT 253, ART 220*, ART 221*, BUS 241, BUS 242, BUS 248, BUS 275	
	HED, PED, or RER Elective	2

Major Courses:.....(15 hours)

<i>Course</i>	<i>Title</i>	<i>Sem Hrs</i>
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3
CIS 161	Introduction to Networking Communications	3

Note: CIS 110 has been renumbered to CIS 150. CIS 273 has been renumbered to CIS 161.

Complete one of the following options:

Microcomputer Applications Option (27 hours)

Course	Title	Sem Hrs
OAD 125W	Word Processing - Word	3
CIS 113	Spreadsheet Software Applications (Excel)	3
CIS 117	Database Management Software Applications (Access)	3
CIS 207	Introduction to Web Development	3
CIS 208	Intermediate Web Development	3
OAD 230	Computerized Desktop Publishing	3
OAD 246	Office Graphics and Presentations	3
CIS 281	System Analysis and Design	3
CIS 291A	Case Study in Computer Science - Applications or	3
CIS 284A	CIS Internship - Applications	
Total Credit Hours		66

Computer Programming Option (27 hours)

Course	Title	Sem Hrs
CIS 207	Introduction to Web Development	3
CIS 222	Database Management Systems	3
CIS 251	C++ Programming	3
CIS 212S	Visual Basic Programming (Visual Basic .Net)	3
CIS 213	Advanced Visual Basic Programming (Adv. Visual Basic .Net)	3
CIS 255	Java Programming	3
CIS 285	Object-Oriented Programming (Advanced Java)	3
CIS 281	System Analysis and Design	3
CIS 291P	Case Study in Computer Science - Programming or	3
CIS 284P	CIS Internship - Programming	
Total Credit Hours		66

Networking Option (27 hours)

Course	Title	Sem Hrs
CIS 250	E-Commerce	3
CIS 275	Workstation Administration	3
CIS 276	Server Administration	3
CIS 277	Network Services Administration	3
CIS 278	Directory Services Administration	3
CIS 279S	Network Infrastructure Design	3
CIS 280	Network Security	3
CIS 294Q	Special Topics - SQL Server	3
CIS 291N	Case Study in Computer Science - Networking or	3
CIS 284N	CIS Internship - Networking	
Total Credit Hours		66

Web Technologies Option(27 hours)

Course	Title	Sem Hrs
CIS 207	Introduction to Web Development	3
CIS 208	Intermediate Web Development	3
CIS 209	Advanced Web Development	3
CIS 222	Database Management Systems	3
CIS 250	E-Commerce	3
CIS 255	Java Programming	3
CIS 276	Server Administration	3
CIS 279S	Network Infrastructure Design	3
CIS 291W	Case Study in Computer Science - Web Technologies or	3
CIS 284W	CIS Internship - Web Technologies	
Total Credit Hours		66

CIS 130 Introduction to Information Systems is required for students without basic computer skills.

OAD 101 Beginning Keyboarding is required for students without basic keyboarding skills.

*A student planning to take ART 220 or ART 221 should take ART 121 for the Humanities elective.