

Computer Programming Emphasis

Computer Information Technology Degree

Associate of Applied Science

The computer programming emphasis provides students with entry level programming skills. Computer programming professionals must also have a broad knowledge of computer systems and technologies, as well as strong problem solving and analysis skills. They must be able to think logically and have strong verbal and written communication skills.

Degree Outcomes

Students completing the degree will:

- Fulfill the requirements for the Associate of Applied Science.
- Demonstrate competency in their specified emphasis.

Emphasis Outcomes

Students completing the emphasis will:

- Have the technical proficiency required to design and program a solution to a stated problem.
- Demonstrate an understanding of dynamic data structures and generic methods.
- Have the ability to communicate and work effectively with members of a team and members of external groups.

General Education Requirements

Diversity	(3 credits)
Refer to the 'Diversity' section of the general education description of this college catalog for a list of approved courses. Designated diversity courses can be used to fulfill other general education or major requirements.	
Communications	3 credits
Highly Recommended: BUS 107, COM 113 or 215	
English	3 credits
Highly Recommended: BUS 108, ENG 101 (or 113), 102 (or 114), 107 or 108	
Human Relations	3 credits
Highly Recommended: MGT 212	
Quantitative Reasoning	3 credits
Choose from: MATH 126 or higher (MATH 127 required for CS 135)	
Science	3 credits
Social Science/Humanities	3 credits
U.S. and Nevada Constitutions	3 credits
Total General Education Requirements	21 Credits

Core Requirements

CIT 112	Network +	(3)
- or -		
CSCO 120	CCNA Internetworking Fundamentals	(4)
CIT 114	IT Essentials.....	4
CIT 128	Introduction to Software Development.....	4
Total Core Requirements		11-12 Credits

Emphasis Requirements

CIT 151	Beginning Web Development.....	3
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CIT 180	Database Concepts and SQL.....	3
CIT 263	Introduction to IT Project Management	3
	Beginning & Advanced Programming Languages...	12

Students must complete the beginning and advanced courses in two programming languages for 12 credits.

Java		
CIT 130	Beginning Java.....	(3)
CIT 230	Advanced Java.....	(3)
C#		
CIT 134	Beginning C#.....	(3)
CIT 234	Advanced C#.....	(3)
C++		
CS 135	Computer Science I.....	(3)
CS 202	Computer Science II.....	(3)
Total Emphasis Requirements		21 Credits

Elective Requirements

Choose at least six credits from any CIT, CS, or CSCO course not used in the core or emphasis requirements to ensure a minimum degree total of 60 credits.

CIT, CS or CSCO	6-7
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Total Elective Requirements	6 Credits
Total Degree Requirements	60-61 Credits

Suggested Course Sequence

First Year	Course #	Title	Credits
1st Semester			
Core	CIT 114	IT Essentials	4
Core	CIT 128	Introduction to Software Development	4
English	Elective	Choose from recommended list	3
Quantitative Reasoning	MATH 126 or higher	Pre-Calculus I	3
Total			14
2nd Semester			
Emphasis	CIT 151	Beginning Web Development	3
Core	CIT 112	Network +	(3)
	or CSCO 120	CCNA Internetworking Fundamentals	(4)
Science	Elective		3
Social Science/ Humanities/Diversity	Elective		3
Emphasis	First programming language-beginning course		3
Total			15-16
Second Year	Course #	Title	Credits
1st Semester			
Communications	BUS 107	Business Speech Communications	3
Emphasis	CIT 180	Database Concepts and SQL	3
Human Relations	MGT 212	Leadership and Human Relations	3
Emphasis	First programming language-advanced course		3
Emphasis	Second programming language-beginning course		3
Total			15
2nd Semester			
Elective		Choose from any CIT, CS, or CSCO course not included in the core or emphasis requirements.	6-7
U.S. and Nevada Constitutions	Elective		3
Emphasis	CIT 263	Introduction to IT Project Management	3
Emphasis	Second programming language-advanced course		3
Total			15-16
Degree Total			60-61