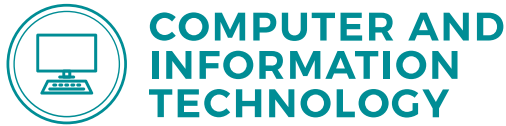


PROGRAMMING AND SYSTEMS ANALYSIS, ASSOCIATE IN APPLIED SCIENCE



COMPUTER AND INFORMATION TECHNOLOGY

Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
Required Courses			
CIS105	Survey of Computer Information Systems	3	_____
GBS151	Introduction to Business	3	_____
Select one of the following:		3	_____
CIS126DL	Linux Operating System		_____
CIS126RH	Red Hat System Administration I		_____
MST150++	Any Microsoft Windows course		_____
CIS133DA	Internet/Web Development Level I	3	_____
Select one of the following:		3	_____
CIS150	Programming Fundamentals		_____
CIS150AB	Object-Oriented Programming Fundamentals ¹		_____
CIS166++	Any Web Scripting course(s)	3	_____
Select one of the following:		3-4	_____
CIS190	Introduction to Networking		_____
CNT140AB	Introduction to Networks		_____
MST140	Microsoft Networking Essentials		_____
Select one of the following:		3	_____
CIS225	Business Systems Analysis and Design		_____

CIS225AB	Object-Oriented Analysis and Design		_____
CIS250	Management of Information Systems		_____
Select one of the following:		3	_____
CIS119DO	Introduction to Oracle: SQL		_____
CIS276DA	MySQL Database		_____
CIS276DB	SQL Server Database		_____
FYE101	Introduction to College, Career and Personal Success	1-3	_____
or FYE103			_____
Exploration of College, Career and Personal Success			_____
Select a programming language from below that best aligns with academic and professional goals (2 courses for a total of 6 credits) in one of the following areas:		6	_____
CIS156 & CIS256	Python Programming: Level I and Python Programming Level II		_____
CIS159 & CIS259	Visual Basic Programming I and Visual Basic Programming II		_____
CIS162++	Any C Programming: Level I course		_____
& CIS262++	Any C Programming: Level II course		_____
CIS163AA & CIS263AA	Java Programming: Level I and Java Programming: Level II		_____
CIS265	Advanced iOS Application Development		_____
& CIS165++	Any Mobile Application Development course		_____
Restricted Electives			
Students may not use courses from the Required Courses Area.			
Select two of the following:		6	_____
CIS224	Project Management Microsoft Project for Windows		_____

CIS151	Computer Game Development - Level I	_____
CIS156	Python Programming: Level I	_____
CIS159	Visual Basic Programming I	_____
CIS162++	Any C Programming: Level I course	_____
CIS163AA	Java Programming: Level I	_____
CIS165++	Any Mobile Application Development course	_____
CIS251	Computer Game Development - Level II	_____
CIS256	Python Programming Level II	_____
CIS259	Visual Basic Programming II	_____
CIS262++	Any C Programming: Level II course	_____
CIS263AA	Java Programming: Level II	_____
CIS265	Advanced iOS Application Development	_____
GBS211	Legal, Ethical and Regulatory Issues of the Internet Studies	_____

General Electives _____

Core _____

First-Year Composition _____

ENG101	First-Year Composition	3	_____
or ENG107	First-Year Composition for ESL		_____
ENG102	First-Year Composition	3	_____
or ENG108	First-Year Composition for ESL		_____

Oral Communication _____

Any approved General Education course from the Oral Communication area	3	_____
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Critical Reading _____

Select one of the following:	0-3	_____
CRE101	College Critical Reading and Critical Thinking	_____

Or equivalent as indicated by assessment _____

Mathematics _____

Select one of the following:	3-6	_____
MAT150	College Algebra/ Functions	_____
MAT151	College Algebra/ Functions	_____
MAT152	College Algebra/ Functions	_____
MAT155	College Algebra/ Functions with Review	_____
MAT156	College Algebra/ Functions with Review	_____

Distribution _____

Humanities, Arts and Design _____

Any approved general education course(s) from the Humanities, Arts and Design (HU) area	3	_____
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Social and Behavioral Sciences _____

Select one of the following:	3	_____
ECN211	Macroeconomic Principles	_____
ECN212	Microeconomic Principles	_____
SBU200	Society and Business	_____

Natural Sciences _____

Any approved general education course(s) in the Natural Sciences (Quantitative) (SQ) area or the Natural Sciences (General) (SG) area.	4	_____
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Total Credits **62-71** _____

¹ Students interested in pursuing an iOS Certificate of Completion (CCL) are recommended to take CIS150AB Object-Oriented Programming Fundamentals