

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		
<i>First-Year Composition</i>		
ENG101	First-Year Composition	3
or ENG107	First-Year Composition for ESL	
ENG102	First-Year Composition	3
or ENG108	First-Year Composition for ESL	
<i>Oral Communication</i>		
Any approved General Education course from the Oral Communication area		3
<i>Critical Reading</i>		
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		
<i>Humanities, Arts and Design</i>		
Any approved general education course(s) from the Humanities, Arts and Design (HU) area		3
<i>Social and Behavioral Sciences</i>		
Select one of the following:		3
ECN211	Macroeconomic Principles	
ECN212	Microeconomic Principles	
SBU200	Society and Business	
<i>Natural Sciences</i>		
Any approved general education course(s) in the Natural Sciences (Quantitative) (SQ) area or the Natural Sciences (General) (SG) area.		4
Total Credits		62-71

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