PROGRAMMING AND SYSTEMS ANALYSIS, ASSOCIATE IN APPLIED SCIENCE



Associate in Applied Science: AAS 3844 62-71 Credits

Program Contact

Prema Rayappa | 480-732-7230 | prema.rayappa@cgc.edu

Program Description

The Associate in Applied Science (AAS) in Programming and Systems Analysis program provides an in-depth exploration of different computer language and technical skills. The AAS includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics. Certificate of Completions (CCLs) in Programming and Systems Analysis Level I and Level II and iOS App Development are also available.

Program Notes

Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum GPA = 2.00.

Consultation with an Academic Advisor is recommended for course selection.

Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

++ indicates any suffixed course may be selected.

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		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 Personal Success	e, Career and	
Select a program from below that be academic and pro- courses for a total one of the follow	pest aligns with ofessional goals (2 al of 6 credits) in	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			CIS265	Advanced iOS Application Development		
& CIS262	Programming: Level II course			GBS211	Legal, Ethical and Regulatory Issues of the		
CIS163A/ & CIS263				General Elective	Internet Studies		
& CIS203	AA Programming: Level I			Core	is .		
	and Java			First-Year Compo	ocition		
	Programming:			ENG101	First-Year	3	
	Level II			LINGTOT	Composition	Ü	
CIS265	Advanced iOS			or ENG107	First-Year Composition for ESL		
	Application Development			ENG102	First-Year	3	
& CIS165	++ Any Mobile				Composition		
	on Development course			or ENG108	First-Year Composition for ESL		
Restricted E	lectives			Oral Communicat			
Students ma	ay not use courses from			Any approved G		3	
	d Courses Area.			Education cours Communication			
	of the following:	6		Critical Reading	aica		
CIS224	Project			Select one of the	e following:	0-3	
	Management Microsoft Project			CRE101	College Critical		
010151	for Windows			GHETOT	Reading and Critical Thinking		
CIS151	Computer Game Development -			Or equivalent	as indicated by		
	Level I			assessment			
CIS156	Python			Mathematics			
	Programming:			Select one of the	e following:	3-6	
	Level I			MAT150	College Algebra/		
CIS159	Visual Basic Programming I				Functions		
CIS162++				MAT151	College Algebra/ Functions		
0.0102	Programming:			MAT152	College Algebra/		
	Level I course			WATTS	Functions		
CIS163A				MAT155	College Algebra/		
	Programming:				Functions with		
CIS165++	Level I				Review		
CISTOST	- Any Mobile Application			MAT156	College Algebra/ Functions with		
	Development				Review		
	course			Distribution			
CIS251	Computer Game			Humanities, Arts	and Design		
	Development - Level II				eneral education	3	
CIS256	Python			course(s) from the Humanities, Arts			
013230	Programming			and Design (HU) area			
	Level II			Social and Behavioral Sciences			
CIS259	Visual Basic			Select one of the	-	3	
	Programming II			ECN211	Macroeconomic		
CIS262++	•			ECN212	Principles Microeconomic		
	Programming: Level II course			LONZIZ	Principles		
CIS263A				SBU200	Society and		
0.02007/	Programming:				Business		
	Level II			Natural Sciences	3		

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