



**COMPUTER SCIENCES**

**B.A.S. in Information Systems Technology Software Application Development (Program Code 8402)**

A.S. Student*	Notes	Term	A.A. Student	Notes
XXX XXXX General Education	Refer to A.A. degree general education requirements.	1st Semester	CGS 1060 Introduction to Computer Concepts	
XXX XXXX General Education	Refer to A.A. degree general education requirements.		CNT 1001 Introduction to Networking	
XXX XXXX General Education	Refer to A.A. degree general education requirements.		COP 1000 Introduction to Programming	Corequisite or Prerequisite: CGS 1060
CAP 3104 Human-Computer Interaction			CAP 3104 Human-Computer Interaction	
CIS 3080 Introduction to Cloud Computing			CIS 3080 Introduction to Cloud Computing	
XXX XXXX General Education	Refer to A.A. degree general education requirements.	2nd Semester	CGS 1540 Database Fundamentals	
XXX XXXX General Education	Refer to A.A. degree general education requirements.		COP 2551 Intro Object Oriented Program with Java	Prerequisite: COP 1000
CIS 3641C Cloud Development Essentials	Prerequisite: CIS 3080		CIS 3641C Cloud Development Essentials	Prerequisite: CIS 3080
CIS 3523C Managing IT Projects			CIS 3523C Managing IT Projects	
CIS 4365 Computer Security Policies and Disaster Preparedness			CIS 4365 Computer Security Policies and Disaster Preparedness	
XXX XXXX General Education		3rd Semester	COP 2220 Programming in C	Prerequisite: COP 1000
XXX XXXX General Education			COP 2360 Programming in C#	Prerequisite: COP 1000
COP 4655C Mobile Application Development	Prerequisite: COP 2551		COP 4655C Mobile Application Development	Prerequisite: COP 2551
COP 3703 Database Design & Architecture			COP 3703 Database Design & Architecture	
CIS 4356 Information Security & Risk Management			CIS 4356 Information Security & Risk Management	
CIS 4651C Cloud Deployment & Operations	Prerequisite: CIS 3641C	4th Semester	CIS 4651C Cloud Deployment & Operations	Prerequisite: CIS 3641C
COP 3538 Data Structures for IT	Prerequisite: COP 2551		COP 3538 Data Structures for IT	Prerequisite: COP 2551
COP 4813 Web Application Programming	Prerequisite: COP 2360		COP 4813 Web Application Programming	Prerequisite: COP 2360
CTS 4457 Data Visualization & Communications			CTS 4457 Data Visualization & Communications	
CIS 4950 Senior Capstone Project or Internship	Prerequisite: Permission of the Dean		CIS 4950 Senior Capstone Project or Internship	Prerequisite: Permission of the Dean
		5th Semester		
		6th Semester		

\*A.S. degree in Computer Programming & Analysis articulates into Software App. Dev. Specialization

Articulated credits from associate's degree: 60  
 Credits earned in Year 3 and Year 4: 60  
 Total Credits: 120

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