



**Community: Information Technology**

**Degree: Programming Specialist AAS**

Required Courses	Title	Credits
ENG 121	English Composition I	3
MAT 121	College Algebra (or higher)	4
<b>Choose 1 from the following:</b>		3
Faculty Approved Business Course:	BUS 115, BUS 120, BUS 216, BUS 226, MAN 210	
ACC 121	Accounting Principles I (4)	
<b>Choose 1 from the following</b>		3
ENG 122	English Composition II	
ENG 131	Technical Writing	
<b>Choose 1 from the following</b>		3
COM 115	Public Speaking	
COM 125	Interpersoanl Communcation	
<b>Credit from any two of the following three areas:</b>		6
Arts & Humanities	(ART, FRE, GER, HUM, ITA, JPN, LIT, MUS, PHI, RUS, SPA, THE)	
Natural & Physical Sciences	(AST, BIO, CHE, ENV, GEY, PHY, SCI)	
Social & Behavioral Sciences	(ANT, ECO, GEO, HIS, POS, PSY, SOC)	
<b>Required Courses:</b>		
CSC 119	Introduction to Programming	3
CSC 160	Computer Science I: C++	4
CIS 220	Fundamentals of UNIX	3
CIS 240	Database Design and Development	3
CIS 268	Systems Analysis and Design	3
<b>Choose 1 from the following</b>		3
CNG 101	Networking Fundamentals	
CNG 131	Principles of Information Assurance	
<b>Choose 9 credits from the following</b>		9
CSC 161	Computer Science II: C++ (4)	
CSC 217	Advanced Python Programming (3)	
CSC 240	Java Programming (3)	
CSC 241	Advanced Java Programming (3)	
CSC 246	Mobile App Development (3)	
CWB 205	Client-side Script: JavaScript (3)	
OOP Faculty Advisor Approved Course		
<b>Choose 9 credits from the following</b>		9
CIS 243	Introduction to SQL (3)	
CSC 225	Computer Architecture/Assembly Lang. Programming (4)	
CSC 129	Introduction to Secure Coding (3)	
CSC 245	Secure Software Coding (3)	
CWB 110	Complete Web Authoring:HTML&CSS (3)	
<b>Choose 1 from the following</b>		3
CIS 289	Capstone	
CSC 280	Internship	
	<b>TOTAL CREDITS:</b>	<b>62</b>



2018-2019 Degree Map (Fall or Spring Start)  
Full-Time College Ready

**First Semester:**

Complete	Course Number	Title	Credits	Prerequisite
	CSC 119	Introduction to Programming	3	Basic Computer Skills
	CNG 101	Fundamentals of Networking	3	Basic Computer Skills
	MAT 121	College Algebra (GT-MA1)	4	
	PHI 113 PHI 112	Logic (GT-AH3) Ethics (GT-AH3)	3	
	COM 115 COM 125	Public Speaking Interpersonal Communication	3	

**Second Semester:**

Complete	Course Number	Title	Credits	Prerequisite
	CSC 160	Computer Science I: C++	4	CSC 119
	CWB 110 CSC 129	Computer Web Authoring: HTML Introduction to Secure Coding (Fall only)	3	Basic Computer Skills
	ENG 121	English Composition I	3	
	CIS 240 (7.5 accelerated)	Database Design and Development	3	CSC 119
	CIS 243 (7.5 accelerated)	Introduction to SQL	3	CIS 240

**Third Semester:**

Compete	Course Number	Title	Credits	Prerequisite
	CWB 205	Client-side Script: JavaScript (3) (Fall only)	3	CWB 110, and CSC 119
	CSC 240 (7.5 session I)	Java Programming (Spring only)		CSC 160
	CSC 246	Mobile App Development (Fall only)	3	CSC 160
	CSC 241 (7.5 session II)	Advanced Java Programming (Spring only)	3	CSC 240
	CIS 220	Fundamentals of Unix	3	CSC 119
	ENG 122 ENG 131	English Composition II Technical Writing	3	ENG 121
	PSY 101 PSY 110	General Psychology I: GT-SS3 Career Development	3	



#### Fourth Semester:

Complete	Course Number	Title	Credits	Prerequisite
	CSC 161 CSC 217	Computer Science II: C++ (4) (Fall only) Advanced Python (3) (Spring only)	3	CSC 160 CSC 119
	BUS 115 BUS 121 BUS 217 MAN 210	Introduction to Business Basic Workplace Skills Business Communication and Report Writing Aligning Technology with Business Strategy	3	
	Approved Elective	Faculty Advisor Approved Elective (Fall)	3	Faculty Approval
	CSC 225	Computer Architecture/Assembly Language Programming (Spring only)	4	CSC 160
	CSC 245	Secure Software Coding (Spring only)	3	CSC 129
	CIS 268	Systems Analysis and Design	3	Last Semester
	CIS 289 CSC 280	Capstone (Spring only) Internship	3	Last Semester Last Semester

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Disclaimer: The contents of this sample represent the most current information available at the time of publication. However, during the period of time covered by this sample it is reasonable to expect changes to be made with respect to this information without prior notice. Students should regularly meet with the faculty advisor listed for the program.