



Community: Information Technology AAS: Software Development

2019-2020 AAS Degree Requirements

Required Courses	Title	Credits
ENG 121	English Composition I	3
MAT 121	College Algebra (or higher)	4
Choose 1 from the following:	Faculty Approved Business Course: BUS 115, BUS 120, BUS 216, BUS 226, MAN 210, ACC 121 (4)	3
Choose 1 from the following	ENG 122 English Composition II or ENG 131 Technical Writing	3
Choose 1 from the following	COM 115 Public Speaking or COM 125 Interpersonal Communication	3
Credit from any two of the following three areas:	Arts and Humanities: (ART, FRE, GER, HUM, ITA, JPN, LIT, MUS, PHI, RUS, SPA, THE) Natural and Physical Science: (AST, BIO, CHE, ENV, GEY, PHY, SCI) Social and Behavioral Sciences: (ANT, ECO, GEO, HIS, POS, PSY, SOC)	6
Required Courses:		
CSC 119	Introduction to Programming	3
CSC 160	Computer Science I: C++	4
CSC 240	Java Programming	3
CIS 220	Fundamentals of UNIX	3
CIS 240	Database Design and Development	3
CIS 243	Introduction to SQL	3
CWB 110	Complete Web Authoring: HTML & CSS	3
CIS 268	Systems Analysis and Design – <i>Last Semester Course</i>	3
Choose 12 credits from the following		12
CSC 129	Secure Code (3)	
CSC 161	Computer Science II: C++ (4)	
CSC 217	Advanced Python Programming (3)	
CSC 225	Computer Architecture/Assembly Lang. Programming (4)	
CSC 241	Advanced Java Programming (3)	
CSC 245	Secure Software Coding (3)	
CSC 246	Mobile App Development (3)	
CNG 101	Networking Fundamentals (3)	
CNG 131	Principles of Information Assurance (3)	
CWB 205	Client-side Script: JavaScript (3)	
Choose 1 from the following	CIS 289 Capstone or CSC 280 Internship	3
TOTAL CREDITS:		62

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
	CWB 110	Complete Web Authoring	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
	CIS 220	Fundamentals of Unix	3	CSC 119
	ENG 121	English Composition I	3	
	CIS 240	Database Design and Development	3	CSC 119
	CIS 243	Introduction to SQL	3	CIS 240

Third Semester:

Complete	Course Number	Title	Credits	Prerequisite
	CSC 240	Java Programming	3	CSC 160, 217
	CSC 129 CNG 101	Secure Code Network Fundamentals	3	CSC 160 Basic Computer Skills
	CSC 241 (7.5 session II) CSC 246 CWB 205	Advanced Java Programming (Spring only) Mobile App Development (Fall only) Client Side Scripting: JavaScript (Fall only)	3	CSC 240 CSC 160, 217 CWB 110
	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	
	CSC 225 CSC 245 CNG 131	Computer Architecture/Assembly Language Programming (Spring only) Secure Software Coding (Spring only) Principles of Information Assurance	4 3 3	CSC 160 CSC 129 CNG 101
	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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