## **Programming Specialist AAS Degree (2017-2018)**

This area of emphasis prepares you to become an entry-level programmer. You will design, develop, build, troubleshoot, debug, maintain, and test computer application software programs in a variety of programming languages. Programs will range from simple business programs to the design and completion of a complex business system. The Computer Information Systems Programming Specialist Associate of Applied Science degree prepares you for entry-level position. You must earn a minimum grade of C in all CIS, CNG, CSC, and CWB courses.

Prerequisite: Working knowledge of computers, computer basics and Community College Placement Test required scores.

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Required General Education Courses		Credits
ENG 121 English Composition I		3
MAT 121 College Algebra (or higher)		4
Choose 1 from the following		3
Faculty approved Business Course (3)		
Approved choices: BUS 115, BUS 120, BUS 216, BUS 226, MAN 210		
ACC 121 Accounting Principles I (4)		
Choose 1 from the following		3
ENG 122 English Composition II (3)		
ENG 131 Technical Writing (3)		
Choose 1 from the following		3
COM 115 Public Speaking (3)		
COM 125 Interpersonal Communication		
THE 118 Acting Skills: Trades/Business		
Credit from any two of the following three areas:		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)		
Required Computer Courses	C	Credits
CSC 119 Introduction to Programming		3
CIS 220 Fundamentals of Unix		3
CIS 240 Database Design and Development		3
CIS 268 Systems Analysis and Design - Last Semester Course		3
CIS 289 Capstone - Spring Only		3
Choose 1 from the following		4
CSC 160 Computer Science I: C++ (4)		
CSC 236 C# Programming (4)		
Choose 1 from the following		3
CNG 101 Networking Fundamentals (3)		
CNG 131 Principles of Information Assurance (3)		
Choose 9 Credits from the following		9
CSC 161 Computer Science II: C++ (4)		
CSC 217 Advanced Python (3)		
CSC 237 Advanced C# Programming (4)		
CSC 240 Java Programming (3)		
CSC 241 Advanced Java Programming (3)		
CSC 246 Mobile App Development (3)		
Any OOP Faculty Advisor Approved Elective (3)		
Choose 9 Credits from the following		9
CIS 243 Introduction to SQL (3)		
CSC 225 Computer Architecture/Assembly Lang. Programming (4)		
CSC 280 Internship (3)		
Faculty Advisor Approved Elective (3)		
	Total Credits:	62

Faculty Advisor: Julie Schneider | julie.schneider@rrcc.edu

	Semester 1:	
	CSC 119	3
	CNG 101	3
	Ged Ed - ENG 121	3
	Ged Ed - MAT 121	4
	Gen Ed - Arts & Humanities, Sciences, Social & Behavioral	3
Plan	Semester 2:	
Ы	CSC 160 or CSC 236	4
ng	CIS 220	3
ıci	CIS 240	3
er	CIS 243 (recommended faculty elective)	3
nb	COM 115 or COM 125	3
Se	Semester 3:	
ب	Gen Ed - ENG 122 or ENG 131	3
ırs	Gen Ed - Arts & Humanities, Sciences, Social & Behavioral	3
יסו	CSC 225 or CSC Faculty Approved Elective (CWB 110, CNG 131, Other Faculty Approved Electives)	3
) C	Choose 2 from the following	
Ą	CSC 161 (Fall only)	
t A	CSC 217	
lis.	CSC 237	
ia	CSC 240	
ec	CSC 246 (Spring only)	
Programming Specialist AAS Course Sequencing	Semester 4:	
ചള	CIS 268	3
nir	CIS 289 or CSC 280	3
π	BUS course	3
rai	Choose 2 from the following that weren't	
gc	already choosen above for semester 3	
Pro	CSC 161 (Fall only)	
	CSC 217	
	CSC 237	
	CSC 240	
	CSC 241 (Spring only)	
	CSC 246 (Spring only)	
	Total Credits:	62

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