



Computer Information Technology

Programming Specialist AAS Degree

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 range from simple business programs to the design and completion of a complex business system.

Use this guide when planning your progress toward completion of the below requirements. In addition, students should meet with a faculty advisor for their area of emphasis each semester and take one to two CIS AAS degree requirements. Course semester offerings are subject to change.

Faculty Advisor(s):

Julie Schneider | 303-914-6247 | julie.schneider@rrcc.edu

Required Courses	Credits	Plan	Semesters Offered
CSC 119 Introduction to Programming: (C or Python)	3	Semester 1	Fall, Spring, Summer
CSC 160 Computer Science I: C++ or CSC 236 C# Programming	4	Semester 2 Semester 2	Fall, Spring, Summer Fall, Spring
CIS 240 Database Design and Development	3	Semester 2	Fall, Spring
CNG 131 Principles of Information Assurance or CNG 101 Introduction to Networking	3	Semester 1 Semester 1	Fall, Spring Fall, Spring, Summer
CIS 220 Fundamentals of UNIX	3	Semester 2	Fall, Spring, Summer
Choose 9 credit hours from the following OOP Electives:	9		
CSC 161 Computer Science II: C++ (4)		Semester 3	Fall
CSC 237 Advanced C# Programming (4)		Semester 3	Fall, Spring
CSC 240 Java Programming (3)		Semester 3	Fall, Spring
CSC 241 Advanced Java Programming (3)		Semester 4	Spring
CSC 246 Mobile App Development (3) or any OOP faculty advisor-approved electives		Semester 4	Spring
Choose 9 credit hours from the following:	9		
Any CSC prefixed faculty advisor-approved course			
CSC 225 Computer Architecture/Assembly Language Programming (4)		Semester 3	Spring
CIS 243 Introduction to SQL (3)		Semester 2	Fall, Spring
CSC 280 Internship (3) or faculty advisor-approved elective (3)		Semester 4	Fall, Spring, Summer
Programming Specialist AAS Degree Sub Total:	34		
Computer Information Systems AAS Degree Requirements:	28 - 29		
Total Credits:	62 - 63		

Enroll online at www.rrcc.edu. For a complete listing of CIS programs, please visit www.rrcc.edu/cis or call 303-914-6430 for more information.