

RED ROCKS

COMMUNITY COLLEGE

COMPUTER TECHNOLOGY

Computer Science

Computer Science Certificate

The Computer Science Certificate at Red Rocks Community College prepares students in an entry-level position in the fields involving software applications, programming, junior programmer, software support technician and software tester. Topics include fundamental programming and Computer Science curriculum in both C++ and Python programming languages and fundamentals of the UNIX operating system. Students focus on design and problem solving algorithms working on the programming life cycle of analysis, design, implement, test and maintain.

Certificate Prerequisite: Working knowledge of computers and computer basics.

Required Courses		Credits
CSC 119	Introduction to Programming	3
CSC 160	Computer Science I: C++	4
CIS 220	Fundamentals of Unix	3
Choose 1 of the following		3
CNG 101	Networking Fundamentals (3)	
CSC Faculty Advisor Approved Elective (3)		
Choose 1 of the following		3
CSC 161	Computer Science II: C++ (4)	
CSC 217	Advanced Python Programming (3)	
CSC 225	Computer Architecture/Assembly Language Programming (4)	
Total Credits:		16

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2016-2017

Computer Science Certificate Sample Course Sequencing Plans

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.

Sample Course Sequencing Plan #1		Credits
Semester 1		
CSC 119	Fall - 7.5 Accelerated Spring - 7.5 Accelerated	3
CSC 160	Fall - 7.5 Accelerated Spring - 7.5 Accelerated	4
CNG 101	Fall Spring Summer Online	3
Semester 2		
CIS 220	Fall Spring Summer Online	3
Choose 1 of the following:		
CSC 161	Fall	4
CSC 217	Spring Summer - Online	3
CSC 225	Spring Alternate Semesters	4

Sample Course Sequencing Plan #2		Credits
Semester 1		
CSC 119	Fall Spring Summer Online	3
CNG 101	Fall Spring Summer Online	3
Semester 2		
CIS 220	Fall Spring Summer Online	3
CSC 160	Fall Spring Spring & Summer Online	4
CSC 217	Spring Summer - Online	3

Sample Course Sequencing Plan #3		Credits
Semester 1		
CSC 119	Fall Spring Summer Online	3
CNG 101	Fall Spring Summer Online	3
Semester 2		
CIS 220	Fall Spring Summer Online	3
CSC 160	Fall Spring Spring & Summer Online	4
Semester 3		
Choose 1 of the following:		
CSC 161	Fall	4
CSC 225	Spring Alternate Semesters	4

Red Rocks Community College is committed to diversity in its people and programs. The College is an equal opportunity educational institution and does not discriminate on the basis of disability, race, creed, color, gender, sexual orientation, gender expression, religion, age, national origin, or ancestry, or any other category protected by applicable law.

The College has designated the Human Resources Director as its Equal Opportunity Employment Officer and Title IX Administrator with the responsibility to coordinate its civil rights compliance activities and grievance procedures. Report all concerns or complaints relating to discrimination or harassment to the RRCC Human Resources Department: 303.914.6570

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