

### Secondary to Postsecondary Pathway for Programming & Software Engineering

	Suggested High School Courses	
ົວ Core Academic Courses*:	English 9, American Government or Geography, Earth Science, Algebra 1 or Algebra Principles, Physical Education	Suggested Electives: Introduction to Business
Career Path Courses:	Computer Science, Web Communications/Designs 1	
€ Core Academic Courses*:	English 10, American History, Biology, Geometry or Geometry Principles	Suggested Electives: Business Law
Career Path Courses:	Web Communications/Designs II, Web Management	
€ Core Academic Courses*:	English 11, Algebra 2 or Algebra 2 for Process Science, World History	Suggested Electives: Marketing
Career Path Courses:	Introduction Computer Programming, Intermediate Computer Programming	
€ Core Academic Courses*:	English 12, Government/Economics	Suggested Electives: Accounting
Career Path Courses:	Advanced Computer Programming, AP Computer Programming, Computer Networking	
Career Path C	Postsecondary Li	Courses: Advanced Computer Programming, AP Computer Programming, Computer Networking Postsecondary Linkages & Certifications

#### **Postsecondary Credit Options:**

CSC 119 Intro to Programming; CIS 240 Database Design and Development; CIS 251 Intro to Structured Query Language; CNG 101 Intro to Networking; CNG 121 Computer Tech I: A+; CNG 122 Computer Tech II A+

**Red Rocks Community College Department of High School Relations:** For more information on postsecondary course options for high school students and for admission to RRCC, please contact, Ernie Navarette at 303-914-6320 or <u>ernie.navarette@rrcc.edu</u>.





Pathway: Information Technology			Plan of Study: Programming & Software Engineering							
Career Goal (O*Net Code):         15-1131.00         Computer Programmers         15-1121.00         Computer Systems Analysts         15-1141.00         Database Administrators         11-3021.00         Computer and Information Systems Managers         15-1134.00         Web Developer         15-1199.11         Video Game Designer				Relevant Occupational Experience (Your Life Experiences may be worth College Credit!): CCCCS Credit for Prior Learning Guide         Contact Julie Schneider (julie.schneider@rrcc.edu) for inquiries concerning earning college credit for life experience in programming, software engineering, and database design/development.						
	LMI Gateway Link to Related Occupations Possible Pathways to your Career!									
		Programs Available	Program Length (*Based on meeting Program Entrance Requirements)		Estimated Tuition	Career Options	Salary Range			
Certificate Option(s)	Programming S Web Developm Microsoft Certif Game Develop	ent ied Technology Specialist (MCTS)	All certificates are 35 credits in length (3 semesters)		\$4523	Entry positions: computer programmer, web developer/designer, database designer/administrator, video game designer; software developer/engineer	\$ - \$\$\$			
Associate Degree(s)	Game Develop Associate of Sc	ent ied Technology Specialist (MCTS) ment ience: Computer Science	All degrees are 63-64 credits in length (4 sem)		\$7900	computer programmer, web developer/designer, database designer/administrator, video game designer, computer systems analysts; software developer/engineer	\$ - \$\$\$			
Articul	ation Opportunities	to Advanced Degrees:								
Advanced Degree(	Bachelor's Deg Computer Scier		Assoc 60 Cr		Regis, UNC, Metro State University; UCD, UC Boulder, CSU Colorado School of Mines	computer programmer, web developer/designer, database designer/administrator, video game designer, computer systems analysts; software developer/engineer, IT Manager/Director	\$ - \$\$\$\$			



# **Red Rocks Community College**



Graduate Degree:	Bachelor's Degree + 30 or more credits	CU Boulder CSU CU Denver Colorado School of Mines	computer programmer, web developer/designer, database designer/administrator, video game designer, computer systems analysts; software developer/engineer, IT Manager/Director; computer science researcher	\$-\$\$\$\$			
College Tuition Comparison Guide							
 * \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000							

# **Extended Learning Experiences**

#### **Support Structures:**

Childcare facilities, Counseling Services, Tutoring Services, Academic Advising and Career Counseling http://www.rrcc.edu/advising/

### Financial Aid:

Federal Student Loans, Pell Grant, RRCC Foundation Grant

http://www.rrcc.edu/finaid/

### Professional Affiliations

Cisco, A+, Net +, MCAD, MCDBA, NCWIT

**Practical Learning Experiences:** Paid and Un-paid job shadowing and internships

Red Rocks Community College is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools.

<u>Red Rocks Community College</u> does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: : <u>Bill</u> <u>Dial, Director of HR, Red Rocks Community College, 13300 W. 6<sup>th</sup> Ave., Lakewood, CO 80228</u>





\*\*\* This document is a guide only. It does not act as a legally binding contract.