



Program of Study: Computer Information Systems Cybersecurity Certificate

Career Pathway: Computer Science

Secondary Partner:

Program Name:

CIP:

Program ID:

Post-secondary Partner: Trinidad State College

Program Name: Computer Information Systems Cybersecurity Certificate

CIP: 11.1003

Program ID: CER_1CYS

Secondary Program Description: A program that prepares individuals to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation, auditing, and maintenance of security devices, systems, and procedures. Includes instruction in computer architecture, programming, and systems analysis; networking; telecommunications; cryptography; security system auditing and design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting.	
Career and Technical Courses	Possibilities of careers, and demand relating to this Pathway
State Graduation Requirements: www.cde.state.co.us/postsecondary/graduationguidelines	
High School/Secondary	<ul style="list-style-type: none"> • CNG 1032 Network Security Fundamentals CE • CNG 1036 Guide to IT Disaster Recovery CE • CNG 2058 Digital Forensics CE • CNG 2056 Vulnerability Assessment Level I CE • CNG 2057 Network Defense and Counter Measures CE • CNG 2059 Enterprise Security CE
	<p>Possibilities of Careers: Information Security Analysts, Network and Computer Systems Administrators, Information Security Engineers, Penetration Testers</p> <p>Employment Demand and Wage Data: Employment of information security analysts is projected to grow 32 percent from 2022 to 2032 much faster than the average for all occupations. Annual wage or salary in Colorado Springs, CO which is lower than the US Average where US Median wages are \$112,000 annually or \$53.85 hourly. Workers on average in Colorado Springs earn \$106,000. 10% of workers earn \$63,130 or less. 10% of workers earn \$167,220 or more. Employment of network and computer systems administrators is projected to grow 2 percent from 2022 to 2032, about as fast as the average for all occupations. Employment of network and computer systems administrators is projected to grow 2 percent from 2022 to 2032, about as fast as the average for all occupations. About 19,800 openings for network and computer systems administrators are projected each year, on average, over the decade. Many of those openings are expected to result from the need to replace workers who transfer to different occupations or exit the labor force, such as to retire. Annual wage or salary in Colorado Springs, CO which is higher than the US Average where US Median wages are \$90,520 annually or \$43.52 hourly: In Colorado Springs: Workers on average earn \$99,620. 10% of workers earn \$62,480 or less. 10% of workers earn \$137,790 or more.</p>
Related Industry Certifications/Credential(s) offered through program:	Work-based Learning offered through program: Career Research Cooperative Education Job Shadowing

