



Program of Study: Computer Information Systems Associate of Applied Science

Career Pathway: Computer Science

Secondary Partner:

Program Name:

CIP:

Program ID:

Post-secondary Partner: Trinidad State College

Program Name: Computer Information Systems Associate of Applied Science

CIP: 11.0101

Program ID:

<p>Secondary Program Description: The Computer Information System (CIS) degree is a two-year Associate of Applied Science degree that prepares students with a solid set of skills and knowledge in the Computer Information System field. The degree allows students to further their knowledge by pursuing an area of emphasis towards industry certification, computer programming or transferring to a 4-year university. Major courses are carefully selected in the areas of Information Systems, Computer Networking and Computer Programming to provide students with an exceptional foundation in the field. Job opportunities exist in entry-level positions as a computer support professional or technician, system analyst or computer programmer.</p>	
<p>Career and Technical Courses</p>	<p>Possibilities of careers, and demand relating to this Pathway</p>
<p>State Graduation Requirements: www.cde.state.co.us/postsecondary/graduationguidelines</p>	
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); background-color: #555; color: white; padding: 5px; font-weight: bold; margin-right: 10px;">High School/Secondary</div> <ul style="list-style-type: none"> ENG 1021 English Composition I: GT-CO1 CE ENG 1020 Technical Writing I: GT-CO1 CE MAT 1240 Math for Liberal Arts: GT-MA1, or MAT 1260 Intro to Statistics: GT-MAT1, or MAT 1340 College Algebra: GT-MA1 CE CIS 2020 Fundamentals of Unix CE CNG 1020 A+ Certification Preparation CE CNG 1024 Networking I: Network + CE CNG 1004 Introduction to TCP/IP CE CNG 1033 Firewalls/Network Security CE CNG 1036 Guide to IT Disaster Recovery CE CSC 1020 Problem Solving CE CIS 2023 Linux CE CIS 2040 Database Design and Development CE CIS 2067 Management of Information Systems CE CNG 2012 Configuring Windows Server CE CNG 2024 M/S Windows Wireless Network CE CNG 2056 Vulnerability Assessment I CE CNG 2057 Network Defense/Countermeasures CE CNG 2058 Digital Forensics CE CNG 1080 Internship CE CNG 1032 Network Security Fundamentals CE </div>	<p>Possibilities of Careers: 11-3021.00: Computer and Information Systems Managers 15-1211.00: Computer Systems Analysts 15-1211.01: Health Informatics Specialists 15-1221.00: Computer and Information Research Scientists 15-1241.00: Computer Network Architects 15-1241.01: Telecommunications Engineering Specialists 15-1242.00: Database Administrators 15-1243.00: Database Architects 15-1243.01: Data Warehousing Specialists 15-1244.00: Network and Computer Systems Administrators 15-1253.00: Software Quality Assurance Analysts and Testers 15-1255.00: Web and Digital Interface Designers 15-1255.01: Video Game Designers 15-1299.00: Computer Occupations, All Other 15-1299.01: Web Administrators 15-1299.02: Geographic Information Systems Technologists and Technicians 15-1299.03: Document Management Specialists 15-1299.04: Penetration Testers 15-1299.05: Information Security Engineers 15-1299.06: Digital Forensics Analysts 15-1299.07: Blockchain Engineers 15-1299.08: Computer Systems Engineers/Architects 15-1299.09: Information Technology Project Managers 25-1021.00: Computer Science Teachers, Postsecondary</p> <p>Employment Demand and Wage Data: The Occupational Employment and Wage Statistics Program estimates that the mean annual wage for Management in Colorado in 2020 was \$140,717. The estimated entry level annual wage was \$73,455 and the experienced annual wage was \$174,348. Average employment in 2020 was 115,380.</p>
<p>Related Industry Certifications/Credential(s) offered through program:</p> <p>CompTIA A+ CompTIA Network+ CompTIA Security+</p>	<p>Work-based Learning offered through program:</p> <p>Career Research Cooperative Education Job Shadowing</p>

<p>Advanced Credit Options Key: Notate above which course has an articulation agreement or concurrent enrollment. AA – Course is approved for Articulation Agreement CE – Course is offered as Concurrent Enrollment</p>	<p>CTSO organization(s):</p> <p><input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> CCSA <input type="checkbox"/> HOSA <input type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA <input type="checkbox"/> SC²</p>
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POSTSECONDARY CREDENTIALS			
Certificate(s) offered through program:	Associate Degree(s) offered through program:	Bachelor's Degree(s) program aligns to:	Advanced Degree(s) program aligns to:
CompTIA A+ CompTIA Network+ CompTIA Security+	Computer Information Systems AAS	Computer Information Systems BS	Computer Information Systems MS, PhD
<p>Postsecondary Program Description: The Computer Information System (CIS) degree is a two-year Associate of Applied Science degree that prepares students with a solid set of skills and knowledge in the Computer Information System field. The degree allows students to further their knowledge by pursuing an area of emphasis towards industry certification, computer programming or transferring to a 4-year university. Major courses are carefully selected in the areas of Information Systems, Computer Networking and Computer Programming to provide students with an exceptional foundation in the field. Job opportunities exist in entry-level positions as a computer support professional or technician, system analyst or computer programmer.</p>			
<p>Program Requirements for Entry: http://www.trinidadstate.edu/admissions</p>			
CTE Courses			
<p>Semester 1</p> <ul style="list-style-type: none"> ENG 1021 English Composition I: GT-CO1 ENG 1020 Technical Writing I: GT-CO1 MAT 1240 Math for Liberal Arts: GT-MA1, or MAT 1260 Intro to Statistics: GT-MAT1, or MAT 1340 College Algebra: GT-MA1 CIS 2020 Fundamentals of Unix CNG 1020 A+ Certification Preparation <p>Semester 2</p> <ul style="list-style-type: none"> CNG 1024 Networking I: Network + CNG 1004 Introduction to TCP/IP CNG 1033 Firewalls/Network Security CNG 1036 Guide to IT Disaster Recovery CSC 1020 Problem Solving 		<p>Semester 3</p> <ul style="list-style-type: none"> CIS 2023 Linux CIS 2040 Database Design and Development CIS 2067 Management of Information Systems CNG 2012 Configuring Windows Server CNG 2024 M/S Windows Wireless Network <p>Semester 4</p> <ul style="list-style-type: none"> CNG 2056 Vulnerability Assessment I CNG 2057 Network Defense/Countermeasures CNG 2058 Digital Forensics CNG 1080 Internship CNG 1032 Network Security Fundamentals 	

Postsecondary

District/College Review

Secondary Partner

Print Name:

Title:

Signature:

Date:

Postsecondary Partner

Print Name:

Title:

Signature:

Date: