

## Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Computer Support Specialist  
 Communications Technician  
 Computer Maintenance Technician  
 Computer Systems Analysts\*  
 Database Administrators\*  
 Information Specialist\*  
 LAN (Local Area Network) Administrator  
 Network Systems & Data Communication Analysts  
 Office Administrators  
 Programmer  
 Software Engineers\*  
 Software Technician  
 Systems Analyst\*  
 Technical Support Representative  
 \*Bachelor's Degree or higher required.

### The Program-level Student Learning Outcomes

(PSLOs) below is an outcome that students will achieve after completing specific degree/certificate requirements in this program.

Students will perform computer end user support including identifying and implementing solutions to user requests.

1. Analyze and evaluate a computer –related situation in a business and/or scientific environment to identify a potential problem.
2. Design a technologically feasible and efficient solution.
3. Construct and complete the solution.
4. Demonstrate and explain the solution.

### Similar Course List

The following Grossmont and Cuyamaca College courses are considered similar enough to be accepted in the major for local Computer Science degrees in the district. No Modification of Major forms are required at either campus.

Grossmont Course	Similar Cuyamaca Course
CSIS 112	CIS 190
CSIS 113	CIS 191
CSIS 114	CIS 120
CSIS 119	CS 119
CSIS 132	CIS 211
CSIS 133	CIS 213
CSIS 135	CIS 215
CSIS 172	CIS 105
CSIS 180	CIS 140
CSIS 276	CIS 240
CSIS 281	CIS 267
CSIS 282	CIS 267
CSIS 293	CS 182
CSIS 294	CS 282
CSIS 296	CS 181
CSIS 297	CS 281

## Associate Degree Major Requirements

### Area of Emphasis

#### Cybersecurity and Networking

An area of emphasis leading to an entry level position which specializes in networking and cyber defense. Students completing this sequence will be expected to assist network managers and cybersecurity managers in small, medium, and large-sized organizations.

**Note: All courses must be completed with a letter grade of "C" or higher.**

Subject & Number	Title	Units
Computer Science Info. Systems 113	Introduction to Linux	3
Computer Science Info. Systems 121	Introduction to Cybersecurity	3
Computer Science Info. Systems 125	Network + Certification	3
Computer Science Info. Systems 250	Introduction to Python Programming	4
Computer Science Info. Systems 263	Security + Certification	3
	<b>Total</b>	<b>16</b>

Select at least NINE (9) units in any of the following courses:

Subject & Number	Title	Units
Business 128	Business Communication	3
Computer Science Info. Systems 110	Principles of Information Systems	4
Computer Science Info. Systems 120	Computer Maintenance and A+ Certification	3
Computer Science Info. Systems 130	Windows Server: Installing & Configuring	2
Computer Science Info. Systems 145	Introduction to TCP/IP	2
Computer Science Info. Systems 213	Linux System Administration	3
Computer Science Info. Systems 230	Windows Server: Administering	2
Computer Science Info. Systems 264	Ethical Cybersecurity Hacking	3
Computer Science Info. Systems 265	Computer Forensics Fundamentals	3
	<b>Total</b>	<b>9-10</b>
	<b>Total Required</b>	<b>25-26</b>
	<b>Plus General Education and Elective Requirements</b>	

### Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Cybersecurity and Networking. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

### Area of Emphasis

#### Computer Programming

An area of emphasis intended for the two-year vocational student who plans to gain entry level employment as a programmer for systems. Students who complete the sequence successfully are able to write or maintain code for program modules from design documents and specifications prepared by senior programmers or analysts.