

CYBERSECURITY AND NETWORKING ASSOCIATE IN SCIENCE AND CERTIFICATE OF ACHIEVEMENT



The Computer Science Information Systems curricula provides a foundation in computing and information systems serving the diverse goals of the Grossmont community: employment in various phases of the computing industry, transfer to a baccalaureate institution for continued study in the computer and information sciences, training in selected topics for application in other professions or for personal enrichment, and advanced study for returning computing professionals. Throughout, emphasis is placed on blending fundamental theory and technique with practical applications in business, scientific and academic computing. A guiding principle is the use of intense hands-on instruction with state-of-the-art computer technology.

Five related but distinct areas of emphasis designed to provide corresponding job entry points are available as two-year curricula: Computer Programming, Web Design and Software Engineering.

Completion of the Computer Science Information Systems core courses or their equivalent plus any one area of emphasis satisfies the major requirements for the Associate Degree.

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.

Career Opportunities

<https://www.grossmont.edu/student-support/career-center/resources.php>

Computer Support Specialist
 Communications Technician
 Computer Maintenance Technician
 Computer Systems Analysts¹
 Database Administrators¹
 Information Specialist¹
 LAN (Local Area Network) Administrator
 Network Systems & Data Communication Analysts
 Office Administrators
 Programmer
 Software Engineers¹
 Software Technician
 Systems Analyst¹
 Technical Support Representative

¹ Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes 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-119	CS-119
CSIS-132	CIS-211
CSIS-133	CIS-213
CSIS-135	CIS-215
CSIS-180	CIS-140
CSIS-293	CS-182
CSIS-294	CS-282
CSIS-296	CS-181
CSIS-297	CS-281

Associate Degree Major Requirements

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

Code	Title	Units
CSIS-113	Introduction to Linux	3
CSIS-121	Introduction to Cybersecurity	3
CSIS-125	Network + Certification	3
CSIS-250	Introduction to Python Programming	4
CSIS-263	Security + Certification	3
Select at least nine units from the following:		9-10
BUS-128	Business Communication	
CSIS-110	Principles of Information Systems	
CSIS-120	Computer Maintenance and A+ Certification	
CSIS-130	Windows Server: Installing and Configuring	
CSIS-145	Introduction to TCP/IP	
CSIS-213	Linux System Administration	
CSIS-230	Windows Server: Administering	
CSIS-264	Ethical Cybersecurity Hacking	
CSIS-265	Computer Forensics Fundamentals	

Total Units

25-26

Plus General Education (<https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/>) and Elective Requirements

Certificates of Achievement

Any student who chooses to complete only the requirements listed above 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 stated in the Academic Calendar.