

# WEB DESIGN AND DEVELOPMENT 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.

This program provides students with a well-rounded background in state-of-the-art technologies, knowledge and skills related to the in-demand fields of web design and development. Coursework involves significant hands-on and project centered experience and the opportunity to build portfolio assets. Emphasis is on being able to build and maintain attractive, reliable and robust websites using popular methods, frameworks and toolkits.

## Career Opportunities

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

Computer Support Specialist  
 Communications Technician  
 Computer Maintenance Technician  
 Computer Systems Analysts<sup>1</sup>  
 Database Administrators<sup>1</sup>  
 Information Specialist<sup>1</sup>  
 LAN (Local Area Network) Administrator  
 Network Systems & Data Communication Analysts  
 Office Administrators  
 Programmer  
 Software Engineers<sup>1</sup>  
 Software Technician  
 Systems Analyst<sup>1</sup>  
 Technical Support Representative

<sup>1</sup> 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-132	Introduction to Web Development	3
CSIS-133	Intermediate Web Development	3
CSIS-135	JavaScript Programming	3
CSIS-151	Introduction to Photoshop	3
Select three of the following:		9-10
CSIS-112	Windows Operating System	
CSIS-113	Introduction to Linux	
CSIS-119	Introduction to Computer Programming	
CSIS-121	Introduction to Cybersecurity	
CSIS-147	Social Media and Internet Marketing	
CSIS-180	Fundamentals of Database Design	
CSIS-250	Introduction to Python Programming	
CSIS-276	Introduction to SQL	
CSIS-293	Introduction to Java Programming	
<b>Total Units</b>		<b>21-22</b>

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 Web Design and Development Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline stated in the Academic Calendar.