

# WEB DEVELOPMENT ASSOCIATE IN SCIENCE AND CERTIFICATE OF ACHIEVEMENT



This degree program equips students with the essential coding, programming, and design skills needed to build websites and applications for desktop and mobile platforms. Students gain practical experience using state of the art web development technology to prepare for entry-level positions as web developers. The curriculum is continually updated to respond to rapidly changing industry trends.

*See Business Office Technology for specific Microsoft applications (Word, Excel, PowerPoint, etc.).*

## Career Opportunities

Communications Specialist  
Computer Game Programmer  
Computer Hardware Specialist  
Computer Help Desk Technician  
Computer Maintenance Technician  
Computer Software Technician  
Computer Support Specialist  
Computer Systems Analyst<sup>1</sup>  
Computing Analyst<sup>1</sup>  
Cyber Security Specialist  
Database Manager<sup>1</sup>  
Information Specialist  
Information Systems Programmer<sup>1</sup>  
LAN/WAN Manager  
Manufacturer's Representative  
Network Administrator  
Network Analyst<sup>1</sup>  
Network Consultant  
Network Control Technician  
Network Training and Support Specialist  
Programmer Analyst<sup>1</sup>  
Sales and Service  
Scientific Programmer<sup>1</sup>  
Software Consultant  
Software Developer<sup>1</sup>  
Systems Analyst<sup>1</sup>  
Systems Programmer<sup>1</sup>  
Technical Support Representative  
Telecommunications Programmer<sup>1</sup>  
Telecommunications Technician  
Telecommunications Technical Engineer<sup>1</sup>  
Training Specialist  
Web Designer  
Web Developer

<sup>1</sup> Bachelor Degree or higher required.

## Similar Course List

The following Cuyamaca and Grossmont College courses are considered similar enough to be accepted in the major for local computer science degrees in the district. Modification of Major forms are not required.

Cuyamaca Course	Similar Grossmont Course
CIS-140	CSIS-180
CIS-190	CSIS-112
CIS-191	CSIS-113
CIS-211	CSIS-132
CIS-213	CSIS-133
CIS-215	CSIS-135
CS-119	CSIS-119
CS-181	CSIS-296
CS-182	CSIS-293
CS-281	CSIS-297
CS-282	CSIS-294

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Develop attractive, usable, mobile-friendly websites using current development technologies such as HTML/CSS, JavaScript, PHP/MySQL, frameworks, and content management systems.

## Associate in Science Degree Requirements

Code	Title	Units
CIS-140	Databases	3
CIS-211	Web Development I	3
CIS-213	Web Development II	3
CIS-215	JavaScript Web Programming	3
CIS-219	PHP/MySQL Dynamic Web-based Applications	3
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
GD-105	Fundamentals of Digital Media	3
Select one of the following:		1-4
CIS-220	E-Commerce and Web Presence	
CIS-225	Web Development Capstone	
CIS-267	Directed Work Experience in CIS	
Select two of the following:		6-8
CIS-110	Principles of Information Systems	
CIS-191	Linux Operating System	
CS-182	Introduction to Java Programming	
GD-126	Adobe Photoshop Digital Imaging	
GD-130	Professional Business Practices	
GD-217	Web Graphics	
GD-222	Web Animation	

**Total Units**

**29-34**

Plus General Education Requirements (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>)

## **Certificate of Achievement**

Students who complete only the major requirements above qualify for a Certificate in Web Development. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.