

# COMPUTER INFORMATION SYSTEMS ASSOCIATE IN SCIENCE DEGREE

**PROGRAM CODE:** 2S03831

The **Computer Information Systems Associate in Science Degree** is designed to prepare students for employment in programming, networking, website design, database design and administration, cyber-security, project management or game design. Students learn in a well-equipped technical environment for instruction and lab. CIS courses are taught providing hands-on experience in the use of industry-standard hardware, application software, operating systems, networking, and programming tools. This program also requires students to choose a "Track" from the sets of Restricted Electives below. This degree requires 20-23 units, in addition to other graduation requirements.

Code	Title	Units
<b>Required Courses (14 units):</b>		
CIS 100 F	Introduction to Personal Computers	4
or CIS 100HF	Honors Introduction to Personal Computers	
or CIS 111 F	Introduction to Information Systems	
or CIS 111HF	Honors Introduction to Information Systems	
CIS 180 F	Introduction to Networking Concepts	4
CIS 201 F	Introduction to Python Programming	3
CYBR 106 F	Introduction to Cybersecurity	3
<b>Restricted Electives - Choose ELECTIVES from ONE CAREER TRACK below to meet the minimum program unit requirements:</b>		<b>6-9</b>
<i>Cyber Security Career Track: Select the following courses (9 units):</i>		
CYBR 206 F	Ethical Hacking	3
CYBR 210 F	Network Security	3
CYBR 230 F	Scripting Fundamentals	3
<b>OR</b>		
<i>Programming Career Track: Select the following courses (6-7 units):</i>		
CIS 223 F	Programming in C++	3
or CIS 226 F	Java Programming I	
CIS 142 F	Database I	3
<b>OR</b>		
<i>Network Technician Career Track: Select the following courses (6 units):</i>		
CIS 181 F	Computer Certification Preparation	3
CIS 182 F	Computer Certification Prep II	3
<b>OR</b>		
<i>Network Administration Career Track (9 units):</i>		
CIS 107 F	Introduction to Operating Systems	3
CIS 285 F	Windows Server	3
CIS 290 F	Linux and UNIX Operating System	3
<b>OR</b>		
<i>Web Design Career Track: Select the following courses (9 units):</i>		
CIS 152 F	Web Design I (formerly Web Page Design II)	3
CIS 157 F	Web Design II (formerly Dreamweaver I)	3
CIS 176 F	Web Page Layout with CMS	3
<b>OR</b>		

*Information System Project Management Career Track: Select the following courses (9 units):*

CIS 123 F	Beginning Word Processing (MS Word) (formerly Word Processing)	3
CIS 106 F	Beginning Spreadsheet (MS Excel)	3
CIS 120 F	Project Management I	3

**OR**

*Game Design Career Track: Select the following courses (6 units):*

CISG 100 F	Introduction to Computer Game Design	3
CISG 110 F	Introduction to Programming for Computer Games	3

**Total Units** **20-23**

**Outcome 1:** Demonstrate proficiency in one or more common Business Software programs.

**Outcome 2:** Demonstrate an understanding of common computer technology related terms.

**Outcome 3:** Demonstrate the ability to be effective communicators using common Business communication tools.

**Outcome 4:** Demonstrate knowledge of common Internet related technologies and software.

[https://www.curricunet.com/fullerton/reports/program\\_report.cfm?programs\\_id=1323](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1323)