## COMPUTER INFORMATION SYSTEMS CERTIFICATE

PROGRAM CODE: 2C21267A

CIS 106 F

The Computer Information Systems Certificate is designed to prepare students for entry-level 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 "Career Track" from the sets of Restricted Electives below. This certificate requires 20-23 units. A grade of C or better is required in each class taken.

Code	Title	Units		
Required Courses (14 units):				
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		
	s: Choose ELECTIVES from ONE CAREER eet the minimum program unit requirements:	6-9		
Cyber Security Cardunits):	eer Track: Select the following courses (9			
CYBR 206 F	Ethical Hacking	3		
CYBR 210 F	Network Security	3		
CYBR 230 F	Scripting Fundamentals	3		
OR				
Programming Care units):	er Track: Select the following courses (6-7			
CIS 223 F	Programming in C++	3		
or CIS 226 F	Java Programming I			
CIS 142 F	Database I	3		
OR				
Network Administration courses (6 units):	ation Career Track: Select the following			
CIS 181 F	Computer Certification Preparation	3		
CIS 182 F	Computer Certification Prep II	3		
OR				
Web Design Career	Track: Select the following courses (9 units):			
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		
OR				
Information System following courses (	n Project Management Career Track: Select the 9 units):			
CIS 123 F	Beginning Word Processing (MS Word) (formerly Word Processing)	3		

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		

**Outcome 1:** Demonstrate proficiency in one or more common Business Software and web design programs to design, create, and analyze various business documents and websites.

**Outcome 2:** Demonstrate an understanding of common computer technology related terms to identify, interpret, and classify common technology concepts.

https://www.curricunet.com/fullerton/reports/program\_report.cfm? programs\_id=1324