



**Program of Study: Computer Science**

Associate of Arts/ Science Degree	M	E	T	I	P	N	E	E	D
<b>2. AMERICAN INSTITUTIONS/STATE &amp; LOCAL GOVERNMENT : (3 units)</b>									
Political Science 101**, 105 and 106; Social Science 132. <small>(**Students who completed POL S 101 before Spring 2014 must also complete POL S 106).</small>									
<b>3. U.S. HISTORY: (3units)</b>									
Economics 111, History 116; History 110, 111(CD), 117, 118; Social Science 131									
<b>4. MATHEMATICS</b>									
Mathematics 101, 120, 131 or 220AB (2 units)									
<b>5. HEALTH (3 units)</b>									
Health 104, 106; Psychology 111(CD)* or equivalent will satisfy this requirement.									
<b>6. PHYSICAL EDUCATION (2 units)</b>									
physical education activity classes and/or dance activity classes									
<b>7. FIRST AID (1 units)</b>									
Health 101, 102; Emergency Medical Technology 140									
<b>8. CULTURAL DIVERSITY (3 units)</b>									
Courses that satisfy this requirement have been marked by (CD) and appear throughout the graduation requirements. The requirement may be satisfied by completing any one of the graduation requirements with a course marked (CD) or by completing Child Development 156.									
<b>9. General Education: 18 units; 1 course from each areas</b>									
<b>A. Natural Science (3 units)</b>									
<b>B. Social Sciences (3 units)</b>									
<b>C. Humanities:</b>									
<b>1. Interdisciplinary Humanities (3 units)</b>									
<b>2. Arts, Foreign Language, Literature, &amp; Philosophy (3 units)</b>									
<b>D. Lang &amp; Reality:</b>									
<b>1.English Composition (3 units)</b>									
<b>2.Communication &amp; Analytical Thinking (3 units)</b>									
<b>TOTAL UNITS 35-37</b>									

PREREQUISITE COURSES	CERTIFICATE (Requirements)	U	N	I	T	S	M	E	T	I	P	N	E	E	D	Transfer Credit
	CS/IS 165: Computer Architecture and Assembly Language	4														CSU, UC, USC
	CS/IS 166: Advanced Computer Architecture and Assembly Language	3														CSU, UC, USC
CS/IS 135 or equivalent	CS/IS 211: Data Structure	5														CSU, UC, USC
CS/IS 211 or equivalent	CS/IS 212: Advanced Data Structure	3														CSU, UC, USC
	CS/IS 280 : Concepts of Programming Languages	3														CSU, UC, USC
<b>Select courses from the following list to complete a total of 37 units</b>																
	CS/IS 101 : Introduction to Computer and Information Systems	5														CSU
	CS/IS 112: Introduction to Programming Using JAVA	3														CSU, UC, USC
CS/IS 135 or equivalent: MATH 101 or placement scores	CS/IS 125**: Discrete Structures for Computing	5														CSU, UC, USC
	CS/IS 130:* Introduction to Algorithms	4														CSU, UC, USC
	CS/IS 135: Programming in C/C++	4														CSU, UC, USC
	CS/IS 137: Visual C++ Object-Oriented Programming and Advanced Topics	4														CSU, UC, USC
	CS/IS 139 JAVA	4														CSU, UC, USC
	CS/IS 172 Unix/Linux Operating System	4														CSU, UC, USC
	CS/IS 190: Networking and Telecommunication	3														CSU
MATH 110 or MATH 100 and 102, or placement test scores.	MATH 103* Calculus and Analytic Geometry	5														CSU, UC, USC
MATH 103	MATH 104* Calculus and Analytic Geometry	5														CSU, UC, USC
MATH 104	MATH 107** Linear Algebra	5														CSU, UC, USC
	PHILO 123* Introduction to Symbolic Logic	3														CSU, UC, USC
MATH 104 (may be taken concurrently), and PHY 105 or HS physics with a grade of "C" or better and MATH 103	PHY 101* Engineering Physics	5														CSU, UC, USC
<b>TOTAL UNITS REQUIRED 37</b>																

\* These courses are often required by transfer institutions for computer science majors.  
\*\* Strongly recommended for professional concentration.

\*\*\*Courses with an asterisk may be counted in one area only.  
\*\*\*Students who complete POL S 101 prior to spring 2014 must also complete POL S 106

**Online Resources**



[www.salarysurfer.cccco.edu](http://www.salarysurfer.cccco.edu)



[www.CaCareerZone.org](http://www.CaCareerZone.org)



1500 North Verdugo Road, Glendale, CA 91208 [Academic Counseling](#) (818) 240-1000 Ext. 5918 [Career Center](#) (818) 240-1000 Ext. 5407 or 5408

SEE A COUNSELOR TO PREPARE A STUDENT EDUCATIONAL PLAN

Checklist

Revised 9/12/16



# Information Technology

Computers are everywhere in our professional and personal lives, and people who can help those computers communicate with us- and with each other- are in high demand. If you want to know computers inside and out, the Information Technology Industry career pathway might be perfect for you.

You'll get a strong base of skills on this pathway as you learn to evaluate data, work with people and communicate clearly. This knowledge will be the foundation on which you can build several different amazing careers in the information technology industry. .

With the increased use of computers in our everyday lives, there aren't many other career paths that offer as much fantastic opportunity as the Information Technology Industry path



**\$ How much can you make?**

## Technical Level Careers

(with AA or AS degree or certificate)

- Computer Support Specialist
- LAN Support Technician
- Software/Hardware Installer
- Network Administrator
- Data Communications Specialist
- Computer Graphic Artist
- Desktop Publisher
- Multimedia Specialist
- Web Designer
- Webmaster
- Database Administrator

## Professional Level Careers

(with BS or BA degree)

- Computer Programmers
- Computer Security Specialist
- Database Administrators
- Software Engineers
- Information Systems Architect
- Tower Project Coordinator
- Systems Engineer
- Network Analyst
- Graphic Designer
- Multimedia Artist/Animator
- Corporate Communications Manager

O\*NET ONLINE  
[www.Online.OneToOnline.org](http://www.Online.OneToOnline.org)  
 Has detailed descriptions of the world of work for use by job seekers, students, researchers, and more! Click on "find occupation".