

# Information Technology Associate A.S. Degree - CalGETC

This degree allows students to acquire basic core Information Technology competencies that will prepare them for a career in Computer Networking, Cybersecurity, and related fields. The degree prepares students to enter the workforce as entry-level computer or network support technician or pursue a bachelor's degree in managing information systems.

Total Units: 66-67

### **First Year**

Semester 1 17-18 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
Introduction to Computer Information Science	3	Advisory: familiar with basic functions of word process, spreadsheet, web browser software applications	F(O,P), S(O), Su(O)	
CISC 360 <sup>1</sup> Z Information & Communication Technology Essentials (A+)	4	Advisory: CISC 302 and 310	F, S, Su	
CalGETC Area 1A- English Composition 2	3		F, S ,Su	Cal-GETC Area 1A
STAT C1000E Introduction to Probability and Statistics or	4	Intermediate Algebra or equivalent	F, S, Su(O)	Cal-GETC Area 2
MATH 341 Calculus for Business and Economics or	4	Intermediate Algebra or equivalent	F, S, Su	Cal-GETC Area 2
MATH 400 Calculus I	5	MATH 375 or MATH 372 AND Math 373	F, S, Su	Cal-GETC Area 2
CalGETC Area 3A-Arts 2	3		F, S, Su	Cal-GETC Area 3A

At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the <u>ZTC page of the college website</u>.

# Career Options/Outlook:

Computer Network Support
Specialists analyze, test, troubleshoot, and
evaluate existing network systems, such as
local area network (LAN), wide area
network (WAN), and Internet systems or a
segment of a network system. Perform
network maintenance to ensure networks
operate correctly with minimal
interruption. Career opportunities may
require more than an associate degree.

## A sample of reported job titles:

Computer Network Specialist, IT
Consultant (Information Technology
Consultant), Network Engineer, Network
Specialist, Network Support Specialist,
Network Technical Analyst, Network
Technician, Personal Computer Network
Analyst, Senior IT Assistant (Senior
Information Technology Assistant),
Systems Specialist

# Projected job openings in California (2020-2030):

1,230

# Projected growth in California (2020-2030):

13% growth

<sup>&</sup>lt;sup>1</sup> or CompTIA A+ certification

Semester 2 18 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISN 300 Network Systems Administration	3	Advisory CISC 310	S(O), Su(O)	
CISN 301 Network Client Systems Administration	3	Advisory: CISC 323		
CISS 310 Network Security Fundamentals	3	ACCT 101 or 301 Advisory: CISC 302 or 310		
CalGETC Area 1B- Critical Thinking & Composition	3		F, S, Su	Cal-GETC Area 1B
CalGETC Area 3B- Humanities	3		F, S, Su	Cal-GETC Area 3B
CalGETC Area 4- Social & Behavioral Sciences	3		F, S, Su	Cal-GETC Area 4

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## Year 2

Semester 3 15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISN 303 Network Administration - Linux Server	3		F, S, Su	
CISN 304 Networking Technologies	3	CISC 310	F(P), S(O)	
CISS 315 Ethical Hacking	3	CISS 310	F, S, Su	
CalGETC Area 1C- Oral Communication	3		F, S, Su	Cal-GETC Area 1C
CalGETC Area 5A- Physical Sciences	3		F, S, Su	Cal-GETC Area 5A

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## Median Salary in California (2021):

\$69,800/yr

#### Source:

https://www.onetonline.org/link/summary/15 -1152.00

#### **Transfer notes:**

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

## General Education (GE):

Non-specified GE courses identified by CRC or Cal-GETC Area without pre- or co-requisites can be taken at any semester.

## **Honors option:**

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

## This map also meets the requirement for:

The Certificate of Achievement in CIS-Information Technology.

## About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course

availability or financial aid applicability.

Textbook filter to find these courses. Learn more on the <u>ZTC page of the college website</u>.

Semester 4 16 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISN 490 Networking Helpdesk Practicum	3	CISC 360, CISN 300, CISN 304		
CISS 321 Scripting for Cyber Security	3	CISS 315	F, S, Su	
CalGETC Area 4- Social & Behavioral Sciences 2	3		F, S, Su	Cal-GETC Area 4
CalGETC Area 5B- Biological Science	3		F, S, Su	Cal-GETC Area 5B
CalGETC Area 5C- Lab Z	1		F, S, Su	Cal-GETC Area 5C
CalGETC Area 6- Ethnic Studies	3		F, S, Su	Cal-GETC Area 6

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## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the Zero Textbook Costs page of the college website.

Catalog Year: 2025-2026 Counselor Contact: Ea Edwards | Faculty Contact: Wendell Fishman

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