



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
CISC 310 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 360¹ Information & Communication Technology Essentials (A+)	4	Advisory: CISC 302 and 310	F, S, Su	
CalGETC Area 1A-English Composition	3		F, S, Su	Cal-GETC Area 1A
STAT C1000E Introduction to 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	3		F, S, Su	Cal-GETC Area 3A

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

¹ 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

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

Projected growth in California (2020-2030):

13% growth

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.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CalGETC Area 5A-Physical Sciences	3		F, S, Su	Cal-GETC Area 5A

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	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	1		F, S, Su	Cal-GETC Area 5C
CalGETC Area 6-Ethnic Studies	3		F, S, Su	Cal-GETC Area 6

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.

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: 2026-2027
Published September 23,
2026

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