



# 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 <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISC 310</b> <b>Z</b> 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)	
<b>CISC 360</b> <sup>1</sup> <b>Z</b> Information & Communication Technology Essentials (A+)	4	Advisory: CISC 302 and 310	F, S, Su	
<b>CalGETC Area 1A-English Composition</b> <b>Z</b>	3		F, S, Su	Cal-GETC Area 1A
<b>STAT C1000E</b> <b>Z</b> Introduction to Probability and Statistics or	4	Intermediate Algebra or equivalent	F, S, Su(O)	Cal-GETC Area 2
<b>MATH 341</b> <b>Z</b> Calculus for Business and Economics or	4	Intermediate Algebra or equivalent	F, S, Su	Cal-GETC Area 2

## 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

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>MATH 400</b> <b>Z</b> Calculus I	5	MATH 375 or MATH 372 AND Math 373	F, S, Su	Cal-GETC Area 2
<b>CalGETC Area 3A-Arts</b> <b>Z</b>	3		F, S, Su	Cal-GETC Area 3A

**Z** 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 [ZTC page of the college website](#).

<sup>1</sup> or CompTIA A+ certification

## Semester 2

18 Units

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

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## 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.

requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

## Year 2

### Semester 3

15 Units

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

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### Semester 4

16 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISN 490</b> Networking Helpdesk Practicum	3	CISC 360, CISN 300, CISN 304		
<b>CISS 321</b> <b>Z</b> Scripting for Cyber Security	3	CISS 315	F, S, Su	
<b>CalGETC Area 4-Social &amp; Behavioral Sciences</b> <b>Z</b>	3		F, S, Su	Cal-GETC Area 4

## 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.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CalGETC Area 5B-Biological Science <b>Z</b>	3		F, S, Su	Cal-GETC Area 5B
CalGETC Area 5C-Lab <b>Z</b>	1		F, S, Su	Cal-GETC Area 5C
CalGETC Area 6-Ethnic Studies <b>Z</b>	3		F, S, Su	Cal-GETC Area 6

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