Information Technology Associate A.S. Degree

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: 59-61

First Year

Semester 1
14-15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISC 310 Ⓩ Introduction to Computer Information Science	3	Advisory: familiiar with basic functions of word process, spreadsheet, web browswer software applications	F(O,P), S(O), Su(O)	CRC Area II(b) or III(b)
STAT 300 Ⓩ Introduction to Probability and Statistics **or**	4	MATH 120 or 125	F, S, Su(O)	CRC Area II(b)
MATH 341 Ⓩ Calculus for Business and Economics **or**	4	MATH 120	F, S, Su	CRC Area II(b)
MATH 343 Modern Business Mathematics **or**	4	MATH 120	Check Class Schedule for offering	CRC Area II(b)
MATH 400 Ⓩ Calculus I	5	MATH 370	F, S, Su	CRC Area II(b)
CRC Area II(a)- Writing Competency 1 Ⓩ	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
CRC Area I- Humanities Ⓩ	3		F, S, Su	CRC Area I
CRC Area III(a)-Physical Edu Activity Ⓩ	1		F, S, Su	CRC Area III(a)

Ⓩ 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.

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

[1] Suggestion-BUS 310 Business Communication (3 units); Pre-req: BUS 100; Advisory: ability to key 30+ WAM; F, S, Su

Semester 2   15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISN 304 Networking Technologies	3	CISC 310	F(P), S(O)	
CRC Area IV-Natural Sciences Ⓩ	3		F, S, Su	CRC Area IV
CRC Area VI-Ethnic/ Multicultural Studies Ⓩ	3		F, S, Su	CRC Area VI
CRC Area V(a)-American Institutions Ⓩ	3		F, S, Su	CRC Area V(a)
Elective [1]	3		F, S, Su	

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[1] Units needed to total 60 units for graduation. Refer to Course Number for the appropriate course level necessary for the degree.

Year 2

Semester 3   15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISC 360 Ⓩ Information & Communication Technology Essentials (A+)	4	Advisory: CISC 302 & 310	F(P)	
3 units from List A	3	See List A	See List A	
Elective [1]	3		F, S, Su	
Elective [1]	2		F, S, Su	
Elective [1]	3		F, S, Su	

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[1] Units needed to total 60 units for graduation. Refer to Course Number for the appropriate course level necessary for the degree.

Semester 4   15-16 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA

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 Area, CSU Area or IGETC Area without pre- or co-requisite 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.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
3 units from List A	3	See List A	See List A	
CISP 370 Beginning Visual Basic **or**	4	Advisory: CISC 310 or CISP 300	F(O), S(P)	CRC Area II(b)
CISP 360 Introduction to Structured Programming **or**	4	CISP 300 or MATH 400	F(P), S(P)	CRC Area II(b)
CISS 321 Ⓩ Scripting for Cyber Security	3	CISN 341 & CISS 315	Check Class Schedule for offering	
CRC area V(b)-Social & Behavioral Sciences Ⓩ	3		F, S, Su	CRC Area V(b)
Elective [1]	3		F, S, Su	
Elective [1]	3		F, S, Su	

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^You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (P) = partially online

[1] Units needed to total 60 units for graduation. Refer to Course Number for the appropriate course level necessary for the degree.

List A-a minimum of 6 units from the following:

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CISN 300 Network Systems Administration	3	Advisory CISC 310	S(O), Su(O)	
CISP 351 Introduction to Relational Database Design and SQL	3		F(P)	
CISS 310 Network Security Fundamentals	3	Advisory: CISN 300 & 304	F(O), S(O), Su(O)	
CISS 315 Ethical Hacking	3	CISS 310; Advisory: CISS 300	Su(P)	
CISS 360 Computer Forensics and Investigation	3	CISS 310; Advisory: CISC 308	F(P)	
BUS 310 Business Communications	3	BUS 100; Advisory: ability to key 30+ WAM	F, S	CRC Area II(a)