CIS: Computer Networking Management A.S. Degree - CISCO

FULL TIME

This program roadmap 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 roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2026-27

GE Pattern: local AA/AS

Total Units: 60

Start Term: Fall

First Year

Semester 1 (Fall) — 16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	**CISA 315** Introduction to Electronic Spreadsheets	2		
Req	**CISC 350** Introduction to Data Communications	1		
Req	**CISN 340** Cisco Networking Academy CCNA: Introduction to Networks	3.5		
Req	**CISN 341** Cisco Networking Academy CCNA: Switching, Routing, and Wireless Essentials	3.5	CISN 340	
Req	**CISS 310** Network Security Fundamentals	3		
RE	**ENGL C1000** College Composition **or** **ENGL C1000H** [H] Honors College Composition	3 3		L1A

Semester 2 (Spring) — 14.5 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	**CISC 323** Linux Operating System	1		
Req	**CISC 324** Intermediate Linux Operating System	1	CISC 323	
Req	**CISC 361** Information Technology Fundamentals	3		
Req	**CISN 342** Cisco Networking Academy CCNA: Enterprise Networking, Security, and Automation	3.5	CISN 341	

CAREER PATH

Career Options:

- network technical support staff
- network administrator
- network designer
- network systems engineer
- network troubleshooter
- information systems security specialist

Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-GETC transfer GE pattern. See a counselor to determine which pattern is best for you based on your academic goals.
- This map is designed for students who are able to take 12 units or more each semester, which is considered a full-time load. It shows one possible way to finish the program in two years. See a counselor to adjust the coursework to meet your specific needs.
- Students can substitute ESLW 340 for ENGL C1000/C1000H (formerly known as ENGWR 300/480).
- **Elective Courses:** any elective courses numbered 100-499, or having a 4-digit number starting with C.

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	STAT C1000 Introduction to Probability and Statistics **or** STAT C1000H[H] Introduction to Probability and Statistics - Honors	4 4		L2
GE	any Area L7B (Life Development Skills) course	2		L7B

Second Year

Semester 3 (Fall) — 16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	CISC 320 Operating Systems	1		
RE	CISN 119 TCP/IP Protocols	3		
Req	CISS 330 Implementing Internet Security and Firewalls	3	CISS 310	
GE	any Area L1B (Oral Communication & Critical Thinking) course	3		L1B
GE	any Area L5 (Natural Sciences) course	3		L5
Elec	any elective course	3		

Semester 4 (Spring) — 13.5 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area L3 (Arts & Humanities) course	3		L3
GE	any Area L4 (Social & Behavioral Sciences) course	3		L4
GE	any Area L6 (Ethnic Studies) course	3		L6
GE	any Area L7A (Physical Education) course	1		L7A
Elec	any elective course	3		
Elec	any elective course	0.5		

[H] honors courses

EXPLANATION OF CATEGORIES		
Req	Required Core	A course that is required for this program

Scheduling Notes:

- CISN 340 is offered in the 1st 8 weeks and CISN 341 is offered in the 2nd 8 weeks, so they can be taken in the same semester.
- CISC 323 is offered in the 1st 8 weeks and CISC 324 is offered in the 2nd 8 weeks, so they can be taken in the same semester.
- CISC 350 and 361 are offered in the 1st 8 weeks.
- This degree can be started in the spring as well. See a counselor to adjust the coursework.

Other Notes:

- At the end of the second semester, students qualify for the **CIS: Computer Networking Management certificate**, with a CISCO concentration.
- This degree, with a Cisco concentration, covers all of the objectives of the Cisco Certified Network Associate (CCNA) certification exam.

EXPLANATION OF CATEGORIES		
RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list
GE	General Education	A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement
Elec	Degree Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree

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