



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: 2024-25

GE Pattern: local AA/AS

Total Units: 60

Start Term: Fall

First Year

Semester 1 (Fall)

16 Units

CAT.	COURSE	TITLE	UNIT	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	
Req	CISS 310	Network Security Fundamentals	3	
RE	ENGWR 300 / 480 ^H	College Composition	3	Ila WC

Semester 2 (Spring)

14.5 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	CISC 323	Linux Operating System	1	
Req	CISC 324	Intermediate Linux Operating System	1	
Req	CISC 361	Information Technology Fundamentals	3	
Req	CISN 342	Cisco Networking Academy CCNA: Enterprise Networking, Security, and Automation	3.5	
GE	STAT 300 / 480 ^H	Introduction to Probability and Statistics	4	IIb MC
GE		any Area IIIb (Life Development Skills) course	2	IIIb

Second Year

Semester 3 (Fall)

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	CISC 320	Operating Systems	1	
RE	CISN 119	TCP/IP Protocols	3	
Req	CISS 330	Implementing Internet Security and Firewalls	3	
GE		any Area IV (Natural Sciences) course	3	IV
GE		any Area Va (American Institutions) course	3	Va

CAREER PATH

Career Options:

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

Advising Notes:

- Students can substitute ESLW 340 for ENGWR 300/480.

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.

CAT.	COURSE	TITLE	UNIT	GE AREA
Elec		any elective course numbered 100-499	3	

Semester 4 (Spring)

13.5 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE		any Area I (Humanities) course	3	I
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI
GE		any Area IIIa (Physical Education) course	1	IIIa
Elec		any elective course numbered 100-499	3	
Elec		any elective course numbered 100-499	0.5	

^H honors courses

- This degree, with a Cisco concentration, covers all of the objectives of the Cisco Certified Network Associate (CCNA) certification exam.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this program
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

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

MC = Math Competency

WC = Writing Competency