



Cybersecurity and Information Assurance A.S. Degree

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: 2025-26

GE Pattern: local AA/AS

Total Units: 60

First Year

Semester 1

16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
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	CISN 300 Network Systems Administration	3		
Req	CISS 310 Network Security Fundamentals	3		
GE	ENGL C1000 Academic Reading and Writing or	3		L1A
	ENGL C1000H^H Academic Reading and Writing - Honors	3		

Semester 2

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	CISS 315 Ethical Hacking	3		
Req	CISS 350 Disaster Recovery	3		
Req	CISS 360 Computer Forensics and Investigation	3		
GE	MATH 300 Introduction to Mathematical Ideas	3		L2
GE	any Area L3 (Arts & Humanities) course	3		L3

Second Year

Semester 3

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	CISS 316 Cisco Networking Academy(R): CyberOps Associate	3		
Req	CISS 321 Scripting for Cyber Security	3	(see below)	

CAREER PATH

Career Options:

- Cybersecurity Engineer
- Cyber Operations Planner
- IT Security Specialist
- Information Security Analyst
- IT Privacy Analyst
- IT Risk Analyst Security Operations Center (SOC) Technician
- Information Security Auditor

Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-G ETC transfer GE pattern. See a counselor to determine which pattern is best for you based on your academic goals.
- 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.

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.

Other Notes:

- This degree prepares students for several nationally recognized, high demand certifications in the field of cybersecurity.

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
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

CISS 321 prerequisite: CISC 340, CISS 310 or CISS 315

Semester 4

14 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
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
GE	any Area L7B (Life Development Skills) course	2		L7B
Elec	any elective course	3		
Elec	any elective course	2		

^H honors courses

- Students are strongly advised to get an IT internship as early as possible because most employers require work experience in the field.
- By the end of the second semester, students qualify for the **Computer Information Security Essentials** certificate.
- By the end of the third semester, students qualify for the **Cybersecurity and Information Assurance** certificate.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this program
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