

CYBERSECURITY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 Catalog (63-64 credits)

NOTE: Degree requires a minimum of **60 credit hours** and a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
<i>Select one course from four of the following six content areas for a total of 14-15 credits^{1, 2}</i>		14-15

This degree requires courses from Areas I, II, III, and IV; students do not need to take additional courses to complete the General Education requirements.

Area I: Communications - English Composition Level 1		
ENGL 1110G	Composition I ³	
Area II: Mathematics		
Choose one from the following (3-4 credits):		
MATH 1220G	College Algebra ³	
MATH 1250G	Trigonometry & Pre-Calculus ³	
MATH 1350G	Introduction to Statistics ³	
MATH 1430G	Applications of Calculus I ³	
MATH 1511G	Calculus and Analytic Geometry I ³	
MATH 1521G	Calculus and Analytic Geometry II ³	
MATH 1521H	Calculus and Analytic Geometry II Honors ³	
Area III: Laboratory Sciences		
CSCI 1115G	Modern Computing in Practice ³	
Area IV: Social/Behavioral Sciences		
CJUS 1110G	Introduction to Criminal Justice ³	

General Education Elective - Area I: Communications - English Composition Level 2

ENGL 2210G	Professional and Technical Communication ³	3
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Major Requirements

BCIS 1160	Windows	3
CIST 1409	IT Essentials I: PC Hardware, Software, and Practical Applications	3
CIST 1411 or CIST 1121 or CIST 1605	Introduction to Networks A+ Hardware and Operating Systems Internet of Things	4
CIST 1412	Network Device Configuration	4
CIST 1680	Linux Essentials	3
CIST 2311	Database Concepts and Principles	3
CIST 2611	Windows Hybrid Server Administration	3
CIST 2636	CLOUD Computing	3
CIST 2811	Foundations of Security	3

CIST 2812	Fundamentals of Cybersecurity	3
CIST 2881	Cybersecurity Fundamentals	3
CIST 2887	Ethical Hacking	3
Choose 8 credits from the following:		
From BCIS, CSCI, E T, MATH, CIST, OR AIML		8
Total Credits		63-64

- ¹ Each course selected must be from a different area and students cannot take multiple courses in the same area.
- ² See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>) section of the catalog for a full list of courses.
- ³ Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(63-64 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

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Semester 1	Credits
Area I: Communications - English Composition Level 1	4
ENGL 1110G Composition I	
Area IV: Social/Behavioral Sciences	3
CJUS 1110G Introduction to Criminal Justice	
CIST 1680 Linux Essentials	3
CIST 2311 Database Concepts and Principles	3
ELECTIVES	
From BCIS, CSCI, CIST, E T, MATH OR AIML	3
Credits	16

Semester 2	Credits
General Education Elective - Area I: Communications - English Composition Level 2	3
ENGL 2210G Professional and Technical Communication	
BCIS 1160 Windows	3
CIST 1411 Introduction to Networks	4
CIST 2636 CLOUD Computing	3
ELECTIVES	
From BCIS, CSCI, C S, CIST, E T, MATH OR AIML	3
Credits	16

Semester 3	Credits
Area II: Mathematics - Choose one from the following:	3-4

2 Cybersecurity - Associate of Applied Science

MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 1521H	Calculus and Analytic Geometry II Honors	
CIST 1409 or CIST 1121 or CIST 1605	IT Essentials I: PC Hardware, Software, and Practical Applications or A+ Hardware and Operating Systems or Internet of Things	3
CIST 1412	Network Device Configuration	4
CIST 2611	Windows Hybrid Server Administration	3
CIST 2811	Foundations of Security	3
Credits		16-17
Semester 4		
Area III: Laboratory Sciences		4
CSCI 1115G	Modern Computing in Practice	
CIST 2812	Fundamentals of Cybersecurity	3
CIST 2881	Cybersecurity Fundamentals	3
CIST 2887	Ethical Hacking	3
Electives		
From BCIS, CSCI, C S, E T, MATH OR AIML		2
Credits		15
Total Credits		63-64