COMPUTER INFORMATION SYSTEMS (ARTIFICIAL INTELLIGENCE) - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 Catalog

(61-62 credits)

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 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.

The New Mexico General Education Requirements (https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education".

Prefix	Title	Credits
General Education		
This degree requires courses from Areas I, II, III, and V; student do not need to take additional courses to complete the General Education requirements.		*17-18*
Area I: Communications		
ENGL 1110G	Composition I [1]	
Area II: Mathematics		
MATH 1220G	College Algebra [1]	
or MATH 1250G	Trigonometry & Pre-Calculus	
or MATH 1350G	Introduction to Statistics	
or MATH 1430G	Applications of Calculus I	
or MATH 1511G	Calculus and Analytic Geometry I	
Area III: Laboratory Sciences		
CSCI 1115G	Modern Computing in Practice [1]	
Area V: Humanities		
Choose one from the following for three credits:		
PHIL 1120G	Logic, Reasoning, & Critical Thinking [1]	
or PHIL 2110G	Introduction to Ethics	
General Education Elective		
ENGL 2210G	Professional and Technical Communication [1]	
Major Requirements		
CIST 2311	Database Concepts and Principles	3
CIST 2210	Introduction to SQL (Structured Query Language)	3
CTEC 152	JAVA Programming	3
or CSCI 1210	Java Programming	
CIST 1411	Introduction to Networks	4
CIST 2251	Python Programming II	3
CIST 1413	Network Administration Concepts	4
CIST 2321	Visual Analytics	3
CIST 2331	Predictive Analytics	3
AIML 1320	Fundamentals of Artificial Intelligence	4
AIML 2310	Deep Learning	4
Select 7 credits from approved computer-related electives. Any course with the following prefix: AIML, BCIS, C S, CSCI, E E, E T, or MATH, EXCLUDING courses used to fulfill Technical/Major Requirements. [2]		7
CIST 2812	Fundamentals of Cybersecurity	3
Total Credits		**61-62**

1. Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
2. Note the total required credits must equal at least 60 credits.

(61-62 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
CIST 2321	Visual Analytics	3
CIST 2311	Database Concepts and Principles	3
ENGL 1110G	Composition I	4
CIST 1411	Introduction to Networks	4
	Credits	**14**
Semester 2		
CIST 2210	Introduction to SQL (Structured Query Language)	3
ENGL 2210G	Professional and Technical Communication	3
CIST 2331	Predictive Analytics	3
CIST 2251	Python Programming II	3
Approved Elective		4
	Credits	**16**
Semester 3		
MATH 1220G or MATH 1250G or MATH 1350G or MATH 1430G or MATH 1511G	College Algebra or Trigonometry & Pre-Calculus or Introduction to Statistics or Applications of Calculus I or Calculus and Analytic Geometry I	3
AIML 1320	Fundamentals of Artificial Intelligence	4
CTEC 152 or CSCI 1210	JAVA Programming or Java Programming	3
CIST 1412	Network Device Configuration	4
	Credits	**14**
Semester 4		
CSCI 1115G	Modern Computing in Practice	4
AIML 2310	Deep Learning	4
PHIL 1120G or PHIL 2110G	Logic, Reasoning, & Critical Thinking or Introduction to Ethics	3
CIST 2812	Fundamentals of Cybersecurity	3

Approved Elective	3
Credits	**17**
Total Credits	**61**

[1] Approved Elective with prefix of BCIS, CSCI, E T, MATH, AIML, CIST, ICT