

# COMPUTER INFORMATION SYSTEMS - ASSOCIATE OF APPLIED SCIENCE

## Doña Ana Community College 2026-2027 Catalog (60-61 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
<b>General Education</b>		
<i>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.</i>		17-18
Area I: Communications		
ENGL 1110G	Composition I <sup>1</sup>	
Area II: Mathematics		
Choose one from the following for three - four credits:		
MATH 1220G	College Algebra <sup>1</sup>	
MATH 1250G	Trigonometry & Pre-Calculus <sup>1</sup>	
MATH 1350G	Introduction to Statistics <sup>1</sup>	
MATH 1430G	Applications of Calculus I <sup>1</sup>	
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	
Area III: Laboratory Sciences		
CSCI 1115G	Modern Computing in Practice <sup>1</sup>	
Area V: Humanities		
Choose one from the following for three credits:		
PHIL 1120G	Logic, Reasoning, & Critical Thinking <sup>1</sup>	
or PHIL 2110G	Introduction to Ethics	
<i>General Education Elective</i>		
ENGL 2210G	Professional and Technical Communication <sup>4</sup>	
<b>Major Requirements</b>		
CIST 2311	Database Concepts and Principles	3
CIST 2210	Introduction to SQL (Structured Query Language)	3
CTEC 152 or CSCI 1210	JAVA Programming Java Programming	3
CIST 2251	Python Programming II	3
CIST 1413	Network Administration Concepts	4
CIST 1411	Introduction to Networks	4
CIST 2321	Visual Analytics	3
CIST 2331	Predictive Analytics	3
At least 15 credits of courses with the following prefixes <sup>2</sup>		15
CIST 2812	Fundamentals of Cybersecurity	3
MATH, BCIS, CIST, E T, AIML or ICT		
<b>Total Credits</b>		<b>61-62</b>

<sup>1</sup> Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

<sup>2</sup> Note the total required credits must equal at least 60 credits.

### (60-61 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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#### First Year

Fall		Credits
ENGL 1110G	Composition I	4
CIST 1411	Introduction to Networks	4
CIST 2311	Database Concepts and Principles	3
CIST 2321	Visual Analytics	3
Elective <sup>1</sup>		3
<b>Credits</b>		<b>17</b>

#### Spring

ENGL 2210G	Professional and Technical Communication	3
Choose one from the following:		3-4
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	
Elective <sup>1</sup>		3
CIST 2210	Introduction to SQL (Structured Query Language)	3
CIST 2331	Predictive Analytics	3
<b>Credits</b>		<b>15-16</b>

#### Second Year

Fall		Credits
CSCI 1115G	Modern Computing in Practice	4
CTEC 152 or CSCI 1210	JAVA Programming or Java Programming	3
CIST 1413	Network Administration Concepts	4
Elective Course		
CIST 2251	Python Programming II	3
<b>Credits</b>		<b>14</b>
Spring		Credits
PHIL 1120G or PHIL 2110G	Logic, Reasoning, & Critical Thinking or Introduction to Ethics	3
Elective <sup>1</sup>		9

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CIST 2812	Fundamentals of Cybersecurity	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>61-62</b>

<sup>1</sup> Approved Elective with prefix of BCIS, CSCI, CIST, E T, ICT, or AIML