

COMPUTER SCIENCE - ASSOCIATE OF APPLIED SCIENCE

NMSU Alamogordo 2026-2027 Catalog

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 60

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.

Prefix	Title	Credits
General Education Requirements		
<i>Select one course from four of the following six content areas for a total of 12-14 credits.</i> ^{1,2}		12-14
This degree requires courses from Area I, II, and III; students must select one course from the remaining areas to complete General Education requirements.		
Area I: Communications		
ENGL 1110G	Composition I	
Area II: Mathematics		
MATH 1250G	Trigonometry & Pre-Calculus	
Area III: Laboratory Science ³		
CSCI 1115G	Modern Computing in Practice	
Area IV: Social/Behavioral Sciences		
Area V: Humanities		
Area VI: Creative/Fine Arts		
<i>General Education Elective</i>		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Program Requirements		
CSCI 1120	Introduction to Computer Animation	3
CSCI 1220	Computer Programming Fundamentals: Python	3
CSCI 1720	Computer Science I	4
CSCI 2210	Object-Oriented Programming	4
CSCI 2220	Introduction to Data Structures and Algorithms	4
CSCI 2310	Discrete Mathematics for Computer Science	4
CSCI 2996	Special Topics (Problem Solving)	3
CIST 2311	Database Concepts and Principles	3
ENGL 2210G	Professional and Technical Communication	3
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
MATH 2415	Introduction to Linear Algebra	3
Total Credits		60

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 Section (<https://catalogs.nmsu.edu/alamogordo/general-information/general-education-new-mexico-common-core/>) of the catalog for a full list of courses.

³ MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take any prerequisites needed to enter MATH 1250G first.

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A Suggested Plan of Study - Computer Science

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

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First Year		Credits
Fall		
CSCI 1115G	Modern Computing in Practice	4
CSCI 1120	Introduction to Computer Animation	3
CSCI 1220	Computer Programming Fundamentals: Python	3
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	
MATH 1250G	Trigonometry & Pre-Calculus ¹	4
Credits		17
Spring		
CSCI 1720	Computer Science I	4
CIST 2311	Database Concepts and Principles	3
ENGL 1110G	Composition I	4
MATH 1511G	Calculus and Analytic Geometry I	4
Credits		15
Second Year		
Fall		
CSCI 2996	Special Topics (Problem Solving)	3
ENGL 2210G	Professional and Technical Communication	3
MATH 1521G	Calculus and Analytic Geometry II	4
Select one course from Area IV, V, or VI (3 credits)		3
Credits		13
Spring		
CSCI 2210	Object-Oriented Programming	4
CSCI 2220	Introduction to Data Structures and Algorithms	4
CSCI 2310	Discrete Mathematics for Computer Science	4
MATH 2415	Introduction to Linear Algebra	3
Credits		15
Total Credits		60

¹ MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take any prerequisites needed to enter MATH 1250G first.

² See the General Education Section (<https://catalogs.nmsu.edu/alamogordo/general-information/general-education-new-mexico-common-core/>) of the catalog for a full list of courses.