

COMPUTER SCIENCE - ASSOCIATE OF APPLIED SCIENCE

NMSU Alamogordo 2024-2025 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 1220G	College Algebra ³	
Area III: Laboratory Science		
Select any Area III: Laboratory Science course (4 credits) ²		
Area IV: Social/Behavioral Sciences		
Area V: Humanities		
Area VI: Creative/Fine Arts		
<i>General Education Elective</i>		
COMM 1130G or COMM 1115G	Public Speaking Introduction to Communication	3
Program Requirements		
C S 111	Computer Science Principles	4
C S 117	Introduction to Computer Animation	3
C S 151	C++ Programming	3
C S 153	Python Programming I	3
C S 172	Computer Science I	4
C S 271	Object Oriented Programming	4
C S 272	Introduction to Data Structures	4
C S 278	Discrete Mathematics for Computer Science	4
E T 182	Introduction to Digital Logic	2
ENGL 2210G	Professional and Technical Communication Honors	3
ENGR 100G or C S 209	Introduction to Engineering Special Topics.	3
MATH 1430G or MATH 1250G	Applications of Calculus I Trigonometry & Pre-Calculus	3-4
MATH 1511G or MATH 1350G	Calculus and Analytic Geometry I Introduction to Statistics	3-4
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 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

NMSU Alamogordo 2024-2025 Catalog

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.

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

First Year		
Fall		Credits
C S 111	Computer Science Principles	4
C S 117	Introduction to Computer Animation	3
C S 153	Python Programming I	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
MATH 1220G	College Algebra ¹	3
Credits		16
Spring		
C S 151	C++ Programming	3
ENGL 1110G	Composition I	4
MATH 1430G or MATH 1250G	Applications of Calculus I or Trigonometry & Pre-Calculus	3-4
Select one course from Area IV, V, or VI ²		3
Credits		13
Second Year		
Fall		
C S 172	Computer Science I	4
ENGL 2210G	Professional and Technical Communication Honors	3
ENGR 100G or C S 209	Introduction to Engineering or Special Topics.	3
MATH 1511G or MATH 1350G	Calculus and Analytic Geometry I or Introduction to Statistics	3-4
Select Area III Laboratory Science course (4 credits total) ²		4
Credits		17
Spring		
C S 271	Object Oriented Programming	4
C S 272	Introduction to Data Structures	4
C S 278	Discrete Mathematics for Computer Science	4
E T 182	Introduction to Digital Logic	2
Credits		14
Total Credits		60

¹ MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G 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.