

SCIENCE - ASSOCIATE OF SCIENCE

NMSU Alamogordo 2024-2025 Catalog

Note: Some classes are only offered in a particular semester and may have prerequisites.

A grade of C- or better is required for 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		
Courses specified in the General Education areas below are Program required courses that will also fulfill General Education requirements.		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
ENGL 1110G	Composition I	4
<i>English Composition - Level 2</i>		
ENGL 2210G	Professional and Technical Communication Honors	3
<i>Oral Communication</i>		
COMM 1115G or COMM 1130G	Introduction to Communication Public Speaking	3
<i>Area II: Mathematics</i>		
Choose one from the following: ¹		3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
<i>Areas III/IV: Laboratory Science and Social/Behavioral Sciences</i> 11		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
Select one course from Area IV: Social/Behavioral Sciences ²		
<i>Area V: Humanities</i>		
Select one course from Area V: Humanities of the General Education list. ²		3
<i>Area VI: Creative/Fine Arts</i>		
Select one course from Area VI: Creative/Fine Arts of the General Education list. ²		3
<i>General Education Elective</i>		
Select one course (not already taken) from the following:		3-4
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
Any General Education area course ²		
Program Requirements		
Select 5 lab science classes (not already taken) to total 20 credits from these prefixes: ASTR, BIOL, CHEM, ENVS, FWCE, GEOL, HORT, PHYS		20

Electives, to bring the total credits to 60 ^{3,4}	5-7
Total Credits	60

- ¹ MATH 1220G College Algebra fulfills the Area II Mathematics requirement. For students transitioning to a Bachelor of Science or a Bachelor of Arts degree, check degree requirements. Most science degrees require calculus and students may need prerequisite courses before entering one of these.
- ² See the General Education Section (<https://catalogs.nmsu.edu/alamogordo/general-education/general-education-new-mexico-common-core/>) of the catalog for a full list of courses.
- ³ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.
- ⁴ For students transitioning to the Bachelor in Geology or Biology there is a second language requirement. The options to complete this requirement and the number of credits required can be found in the NMSU Las Cruces catalog. Please speak with an advisor for more information as to which courses you will need to take to fulfill the second language requirement for this degree.

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A Suggested Plan of Study - 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		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
Choose one from the following: ¹		3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
Area V: Humanities course ³		3
Credits		14
Spring		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
Laboratory Science Course ²		4
Choose from one of the following:		3-4
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
Any General Education area course ³		
Credits		14

Second Year**Fall**

Area IV: Social/Behavioral Sciences course ³	3
ENGL 2210G Professional and Technical Communication Honors	3
Laboratory Science Course ²	4
Laboratory Science Course ²	4
Elective course ^{4,5}	3
Credits	17

Spring

Area VI: Creative/Fine Arts Course ³	3
Laboratory Science Course ²	4
Laboratory Science Course ²	4
Elective Course ^{4,5}	2-4
Credits	15
Total Credits	60

¹ MATH 1220G College Algebra fulfills the Area II Mathematics requirement. for student transitioning to a Bachelor of Science or a Bachelor of Arts degree, check degree requirements. Most science degrees require calculus and students may need prerequisite courses before entering one of these.

² Laboratory Science courses must be chosen from the following prefixes: ASTR, BIOL, CHEM, ENVS, GEOL, FWCE, HORT, PHYS.

³ 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.

⁴ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

⁵ For students transitioning to the Bachelor in Geology or Biology there is a second language requirement. The options to complete this requirement and the number of credits required can be found in the NMSU Las Cruces catalog. Please speak with an advisor for more information as to which courses you will need to take to fulfill the second language requirement for this degree.