

GENERAL ENGINEERING - ASSOCIATE OF SCIENCE

NMSU Alamogordo 2026-2027 Catalog

The student must work closely with an Advisor to select the best options for a successful transition to the four-year institution of his/her choice.

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

Total Credits Required for Degree: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 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	3
<i>Oral Communication</i>		
COMM 1115G	Introduction to Communication	3
<i>Area II: Mathematics</i>		
MATH 1511G	Calculus and Analytic Geometry I ¹	4
<i>Areas III/IV: Laboratory Science and Social/Behavioral Sciences</i>		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	4
ECON 2110G	Macroeconomic Principles	3
<i>Area V: Humanities</i>		
Select one course from Area V: Humanities ²		3
<i>Area VI: Creative/Fine Arts</i>		
Select one course from Area VI: Creative/Fine Arts ²		3
<i>General Education Elective</i>		
MATH 1521G	Calculus and Analytic Geometry II	4
Program Requirements		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
CSCI 1720	Computer Science I	4
ENGR 110	Introduction to Engineering Design	3
ENGR 190	Introduction to Engineering Mathematics	4
MATH 2530G	Calculus III	3
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	4
Select 4 credits from the following:		4
CSCI 2210	Object-Oriented Programming	
CSCI 2220	Introduction to Data Structures and Algorithms	
CSCI 2310	Discrete Mathematics for Computer Science	
GEOL 1110G	Physical Geology	

CHME 101 & CHME 102	Introduction to Chemical Engineering Calculations and Material Balances	
Total Credits		61

- ¹ MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.
- 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.

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A Suggested Plan of Study - General Engineering

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 for the degree.

First Year		Credits
Fall		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
ENGR 190	Introduction to Engineering Mathematics	4
MATH 1511G	Calculus and Analytic Geometry I ¹	4
Credits		16
Spring		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
ECON 2110G	Macroeconomic Principles	3
ENGR 110	Introduction to Engineering Design	3
MATH 1521G	Calculus and Analytic Geometry II	4
Credits		14
Second Year		
Fall		
COMM 1115G	Introduction to Communication	3
CSCI 1720	Computer Science I	4
ENGL 2210G	Professional and Technical Communication	3
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	4
Select one course from Area VI: Creative/Fine Arts ²		3
Credits		17
Spring		
MATH 2530G	Calculus III	3
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	4
Select one course from Area V: Humanities ²		3
Select 4 credits from the following:		4
CSCI 2210	Object-Oriented Programming	
CSCI 2220	Introduction to Data Structures and Algorithms	
CSCI 2310	Discrete Mathematics for Computer Science	
GEOL 1110G	Physical Geology	

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CHME 101 & CHME 102	Introduction to Chemical Engineering Calculations and Material Balances	
	Credits	14
	Total Credits	61

¹ MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

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.