GENERAL ENGINEERING - ASSOCIATE OF SCIENCE

NMSU Alamogordo 2024-2025 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: 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.		
Area I: Communications		
English Composition - Level 1		
ENGL 1110G	Composition I	4
English Composition - Level 2		
ENGL 2210G	Professional and Technical Communication Honors	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I [1]	4
Areas III/IV: Laboratory Science and Social/Behavioral Sciences		*11*
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
Select one course from Area IV: Social/Behavioral Sciences (3 credits) [2]		
Area V: Humanities		
Select one course from Area V: Humanities [2]		3
Area VI: Creative/Fine Arts		
Select one course from Area VI: Creative/Fine Arts [2]		3
General Education Elective		
MATH 1521G	Calculus and Analytic Geometry II	4
Program Requirements		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
or GEOL 1110G	Physical Geology	
DRFT 109	Computer Drafting Fundamentals	3
ECON 2110G	Macroeconomic Principles	3
ENGR 100G	Introduction to Engineering	3
ENGR 111	Mathematics for Engineering Applications	3
Select 6-8 credits from the following:		6-8
C E 233	Mechanics-Statics	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
MATH 2530G	Calculus III	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Elective, to bring the total credits to 60 [3]		**3**
Total Credits		**60**

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.
3. Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate 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.