

GENERAL ENGINEERING - ASSOCIATE OF SCIENCE

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

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.

	Credits
Semester 1	
Area I: Communications - English Composition Level I	4
ENGL 1110G Composition I	
Area II: Mathematics	4
MATH 1511G Calculus and Analytic Geometry I	
Area III: Laboratory Sciences - Choose one from the following (total of 16 credits from different prefixes/areas):	4
CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G Physical Geology	
PHYS 1310G Calculus -Based Physics I & PHYS 1310L and Calculus -Based Physics I Lab	
PHYS 1320G Calculus -Based Physics II & PHYS 1320L and Calculus -Based Physics II Lab	
Or other approved Area III NM General Education course in the NMSU/DACC Catalog.	
ENGR 100G Introduction to Engineering	3
Credits	15
Semester 2	
Area III: Laboratory Sciences - Choose one from the following (total of 16 credits from different prefixes/areas):	4
CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G Physical Geology	
PHYS 1310G Calculus -Based Physics I & PHYS 1310L and Calculus -Based Physics I Lab	
PHYS 1320G Calculus -Based Physics II & PHYS 1320L and Calculus -Based Physics II Lab	
Or other approved Area III NM General Education course in the NMSU/DACC Catalog.	
Area IV: Social/Behavioral Sciences	3
ECON 2110G Macroeconomic Principles	

General Education Elective - Area II: Mathematics	4
MATH 1521G Calculus and Analytic Geometry II	
ENGR 110 Introduction to Engineering Design	3
Credits	14

Semester 3

Area I: Communications - English Composition Level 2	3
ENGL 2210G Professional and Technical Communication	
Area I: Communications - Oral Communications	3
COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking	
Area III: Laboratory Sciences - Choose one from the following (total of 16 credits from different prefixes/areas):	4
CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G Physical Geology	
PHYS 1310G Calculus -Based Physics I & PHYS 1310L and Calculus -Based Physics I Lab	
PHYS 1320G Calculus -Based Physics II & PHYS 1320L and Calculus -Based Physics II Lab	
Or other approved Area III NM General Education course in the NMSU/DACC Catalog.	
Engineering and Related Course - Choose one from the following:	3
C E 151 Introduction to Civil Engineering	
C E 233 Mechanics-Statics	
CHME 201 Energy Balances & Basic Thermodynamics	
MATH 2530G Calculus III	
Or any ENGR course	
Approved Elective	3
Credits	16

Semester 4

Area III: Laboratory Sciences - Choose one from the following (total of 16 credits from different prefixes/areas):	4
CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G Physical Geology	
PHYS 1310G Calculus -Based Physics I & PHYS 1310L and Calculus -Based Physics I Lab	
PHYS 1320G Calculus -Based Physics II & PHYS 1320L and Calculus -Based Physics II Lab	
Or other approved Area III NM General Education course in the NMSU/DACC Catalog.	
Area V: Humanities ¹	3
Area VI: Creative and Fine Arts ¹	3
Engineering and Related Course - Choose one from the following:	3
C E 151 Introduction to Civil Engineering	
C E 233 Mechanics-Statics	
CHME 201 Energy Balances & Basic Thermodynamics	
MATH 2530G Calculus III	
Or any ENGR course	
Approved Elective	2
Credits	15
Total Credits	60

¹ See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>) section of the catalog for a full list of courses