

GENERAL ENGINEERING - ASSOCIATE OF SCIENCE

Doña Ana Community College 2026-2027 Catalog

(60 credits)

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.

Prefix	Title	Credits
General Education		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i> ³		
ENGL 1110G	Composition I	4
<i>English Composition - Level 2</i>		
ENGL 2210G	Professional and Technical Communication	3
<i>Oral Communication</i>		
COMM 1115G or COMM 1130G	Introduction to Communication Public Speaking	3
<i>Area II: Mathematics</i>		
MATH 1511G	Calculus and Analytic Geometry I	4
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i> 11		
ECON 2110G	Macroeconomic Principles	
Select 8 credits from the following: ¹		
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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Other approved lab-science course(s)		
<i>Area V: Humanities</i> ²		3
<i>Area VI: Creative and Fine Arts</i> ²		3
<i>General Education Elective</i>		
MATH 1521G	Calculus and Analytic Geometry II	4
Core Requirements		
<i>Engineering and Related Courses</i>		
ENGR 100G	Introduction to Engineering	3
ENGR 110	Introduction to Engineering Design	3
Select at least 6 credits from the following:		6
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 courses		
Major Requirements		

Select an additional 8 credits from the following, the courses selected must be different from the ones used for Area III:¹ 8

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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Other approved lab-science courses(s)		
Electives to bring total credits to 60		5
Total Credits		60

- ¹ Students must complete at least 16 credits of Laboratory Science coursework for this degree.
- ² 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
- ³ Or, other approved NM General Education Area I courses listed in Level 1 in the current DACC/NMSU catalog.

(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.

Semester 1		Credits
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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Or other approved Area III NM General Education course in the NMSU/DACC Catalog.		

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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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II 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 or COMM 1130G	Introduction to Communication 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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II 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 & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	

PHYS 1320G & PHYS 1320L	Calculus -Based Physics II 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