

Pre-Engineering AS (Undecided Concentration)

The Pre-Engineering degree provides the first two years of study for a student who plans to transfer to UNM-Albuquerque or another 4-year institution to pursue a bachelor's degree in Engineering. A degree in Pre-Engineering provides a foundation for further study in Chemical, Biological, Environmental, Material, Civil, Nuclear, Electrical, Computer, Mechanical, Aerospace, or Construction Engineering. The degree emphasizes a firm foundation in mathematics and science, with selections of engineering courses tailored to future, more specific fields of engineering.

Term	Course	Credits
Fall 	ENGL 1110: Composition I	3
	Gen Ed Arts and Design: Choose one course	3
	MATH 1215: Intermediate Algebra	3
	Gen Ed Student Choice: Choose the recommended course: <ul style="list-style-type: none"> CS 105L: Introduction to Computer Programming 	3
Spring 	ENGL 1120: Composition II	3
	MATH 1220: College Algebra	3
	ENG 195: Topics: Introduction to Engineering	3
	Gen Ed Social and Behavioral Sciences: Choose one course	3
Summer 	MATH 1240: Pre-Calculus	3
	MATH 1230: Trigonometry	3
Fall 	MATH 1512: Calculus I	4
	PHYS 1310: Physics I and PHYS 1310L: Lab	4
	CHEM 1215: General Chemistry I and CHEM 1215L: Lab	4
Spring 	MATH 1522: Calculus II	4
	Gen Ed Humanities: Choose one course	3
	Gen Ed Second Language: Choose one course	3
	PHYS 1320: Physics II and PHYS 1320L: Lab	4
Summer 	ENGL 2210: Professional and Technical Communication	3
	CS152L: Computer Programming Fundamentals	3
Fall 	MATH 2531: Calculus III	4
	ENG 130L: Introduction to Engineering Computing	3
	CHEM 1225: General Chemistry II and CHEM 1225L: Lab	4

Total Program Credit Hours = 3 prerequisite credits + 70 credit hours



Career and Educational Advancement Opportunities

This degree program prepares students with the math and science foundation to continue their studies toward a bachelor’s degree in a variety of engineering fields such as chemical, nuclear, civil, construction, mechanical, electrical, or computer engineering. Most full engineering jobs require a bachelor’s or master’s degree. Technician jobs may be available to those on the associate’s degree level. Internships are an important part of engineering education, and all engineering internships are paid.



New Mexico data taken from [O*Net Online](#) United States Department of Labor database. Wages reflect annual income and are rounded to the nearest thousand dollars. income and are rounded to the nearest thousand dollars.

= slow growth
 = average
 growth
 = fast growth