

Pre-Engineering AS (Electrical/Computer 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.

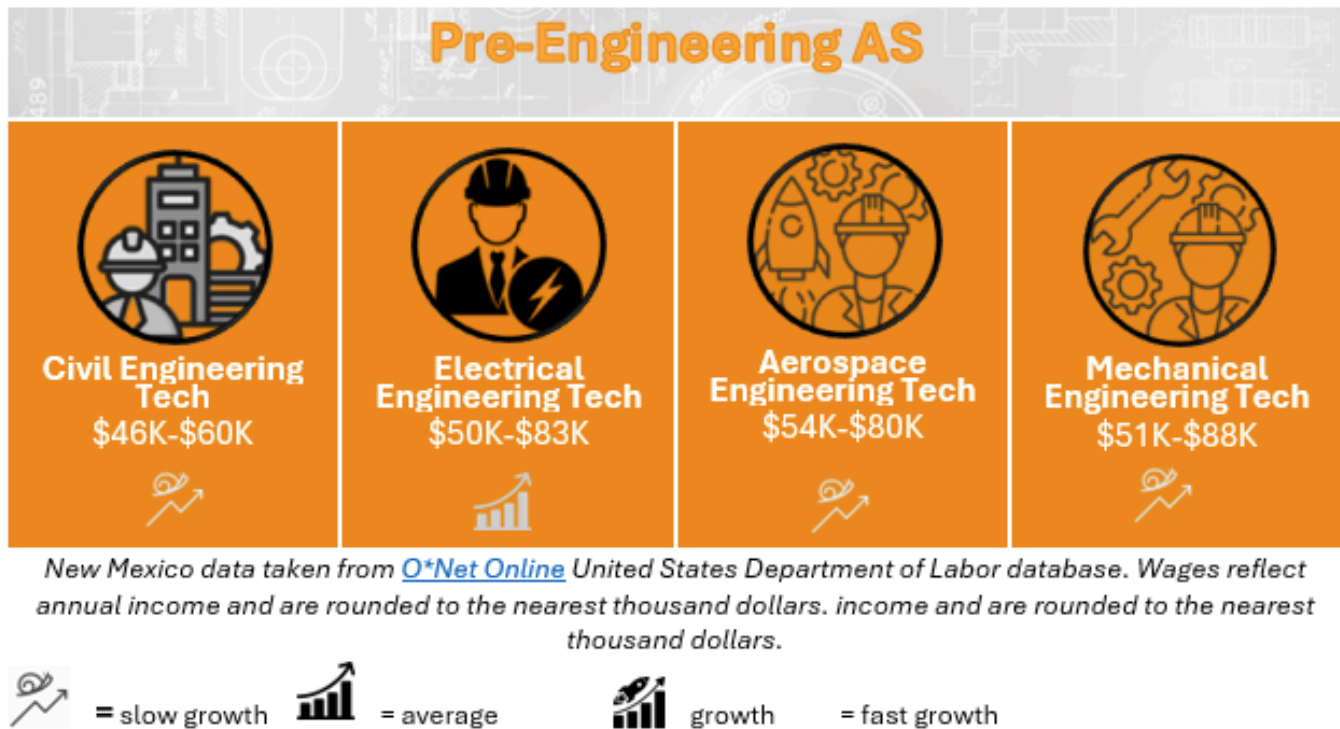
Fall		Course	Credits
		ENGL 1110: Composition I	3
		Gen Ed Arts and Design: Choose a course	3
		MATH 1215: Intermediate Algebra	3
		Gen Ed Student Choice: Choose the recommended course: <ul style="list-style-type: none"> CS 105L: Introduction to Computer Programming 	3
Spring		Course	Credits
		ENGL 1120: Composition II	3
		MATH 1220: College Algebra	3
		ENG 195: Topics: Introduction to Engineering	3
		Gen Ed Social and Behavioral Sciences: Choose ECON 2110 or ECON 2120	3
Summer		Course	Credits
		MATH 1240: Pre-Calculus	3
		MATH 1230: Trigonometry	3
Fall		Course	Credits
		MATH 1512: Calculus I	4
		PHYS 1310: Physics I and PHYS 1310L: Lab	4
		CHEM 1215: General Chemistry I and CHEM1215L: Lab	4
Spring		Course	Credits
		MATH 1522: Calculus II	4
		Gen Ed Humanities: Choose a course	3
		PHYS 1320: Physics II and PHYS 1320L: Lab	4
		ENGL 2210: Professional and Technical Communication	3
Fall		Course	Credits
		MATH 2531: Calculus III	4
		CS 152L: Computer Programming Fundamentals	3
		Gen Ed Second Language: Choose a course	3
Total Program Credit Hours = 3 prerequisite credits + 63 credit hours			

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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.



For questions or to schedule a time to meet with an Advisor/Academic Success Coach about this program contact: Advisement at 505.925-8907. Map Current as of the 2025-2026 Academic Year.