



Associate in Engineering in PRE-ENGINEERING

This program will prepare you for a bachelor's degree in engineering. You will obtain a general background in mathematics and the physical sciences, and will be introduced to the concepts and methods of engineering. This program is not a professional degree and does not prepare you for specific job opportunities. It does, however, provide a broad educational background on which to build a career through additional education or work experience.

GENERAL EDUCATION (39)	COMPLETED	Planned Timeline (By Semester)
<u>Communications (9)</u>		
ENG 111 English Composition I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
ENG 116 Technical Writing (3) <i>Pre-requisite: ENG 111</i>	_____	_____
SPCH 130 Public Speaking (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<u>Mathematics (11)</u>		
MATH 145 Introduction to Probability & Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 162 Calculus I (4) <i>Pre-requisites: MATH 150 and MATH 155 or MATH 160</i>	_____	_____
MATH 163 Calculus II (4) <i>Pre-requisite: MATH 162</i>	_____	_____
<u>Laboratory Science (12)</u>		
CHEM 121/L General Chemistry I/L (4) <i>Pre-requisite: MATH 130, high school chemistry, or an ACT score of 19 or higher in Natural Science</i>	_____	_____
PHYS 215/L Engineering Physics I with lab (4) <i>Pre-requisite: ENGR 120 OR MATH 162; Co-requisite: PHYS 215L</i>	_____	_____
PHYS 216/L Engineering Physics II with lab (4) <i>Pre-requisite: PHYS 215/L</i>	_____	_____
<u>Social/Behavioral Sciences (3)</u>		
ECON 201 Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<u>Humanities and Fine Arts (3)</u>		
HUM 100 First Year Experience: History and Culture of NNM (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<u>Library Technology, Library Research Skills (1)</u>		
LT 101 Library Research Skill (1)	_____	_____
PROGRAM REQUIREMENTS (27)		
<u>Business (3)</u>		
BA Lower division elective (3) _____	_____	_____
<u>Engineering (24)</u>		
ENGR 110 Introduction to Engineering (3) <i>Pre-requisites: MATH 102N</i>	_____	_____
ENGR 120 Introductory Mathematics for Engineering Applications (4) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
EECE 152L Computer Programming I (4) <i>Pre-requisite: None</i>	_____	_____
EECE 203 Circuit Analysis I (4) <i>Pre-requisite: MATH 163 and PHYS 216/L</i>	_____	_____

ME 160L	General Engineering Design I (3)	_____	_____
	<i>Pre-requisite: MATH 155 or adequate score on the Course Placement Evaluation</i>		
ME 202	Engineering Statics (3)	_____	_____
	<i>Pre-requisite: PHYS 215/L and MATH 163 or adequate score on the Course Placement Evaluation</i>		
ME 260L	Engineering Design II (3)	_____	_____
	<i>Pre-requisite: ME 160L and MATH 162 or adequate score on the Course Placement Evaluation</i>		

TOTAL CREDITS 66

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (15 crs)

ENGR 120	Introductory Mathematics for Engineering Applications (4)
EECE 152	Computer Programming I (4)
ENGR 110	Introduction to Engineering (3)
LT 101	Library Research Skills (1)
HUM 100	First year Experience: History and Culture of Northern New Mexico (3)

SECOND SEMESTER (17 crs)

ENG 111	English Composition I (3)
MATH 162	Calculus I (4)
PHYS 215/L	Engineering Physics I with Lab (4)
ME 160L	Gen. Engineering Design I (3)
MATH 145	Introduction to Probability and Statistics (3)

THIRD SEMESTER (18 crs)

MATH 163	Calculus II (4)
PHYS 216/L	Engineering Physics II with Lab (4)
ME 202	Engineering Statics (3)
ME 260L	Engineering Design II (3)
CHEM 121/L	General Chemistry I/L (4)

FOURTH SEMESTER (16 crs)

SPCH 130	Public Speaking (3)
ECON 201	Microeconomics (3)
EECE 203L	Circuit Analysis I (4)
BA	Elective (3)
ENG 116	Technical Writing (3)

Educational Planning Form (Semester)

Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units

Advisor's Signature _____

Student Signature _____