



Associate in Engineering in PRE-ENGINEERING

This program will prepare you for a bachelor's degree in engineering. You will obtain both 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 (43)	COMPLETED	Planned Timeline (By Semester)
Communications (9)		
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>	_____	_____
Mathematics (15)		
MATH 145 Introduction to Probability & Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 162E Calculus I (4) <i>Pre-requisites: MATH 155, ENGR 120</i>	_____	_____
MATH 163E Calculus II (4) <i>Pre-requisite: MATH 162E</i>	_____	_____
MATH 264 Calculus III (4) <i>Pre-requisite: MATH 163</i>	_____	_____
Laboratory Science (12)		
CHEM 121/L General Chemistry I/ with lab (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>	_____	_____
Social/Behavioral Sciences (3)		
ECON 201 Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
Humanities and Fine Arts (3)		
HUM 100 First Year Experience: History and Culture of NNM (3) <i>Pre-requisite: ENG 108 or adequate score on the Course Placement Evaluation</i>	_____	_____
Library Technology, Library Research Skills (1)		
LT 101 Library Research Skill (1) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
PROGRAM REQUIREMENTS (23)		
Business (3)		
BA Lower division elective (3) _____	_____	_____
Engineering (20)		
ENGR 110L Introduction to Engineering (2) <i>Pre-requisites: None</i>	_____	_____
ENGR 120L 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)	_____	_____

Pre-requisite: None

EECE 203L Circuit Analysis I (4)

Pre-requisite: MATH 163 and PHYS 216/L

ME 160L General Engineering Design I (3)

Pre-requisites: None

ME 202 Engineering Statics (3)

Pre-requisite: PHYS 215/L

TOTAL CREDITS 66

SUGGESTED SEQUENCE OF COURSES

First Semester (13 cr)

ENGR 120L Introductory Mathematics for Engineering Applications (4)

ME 160L Gen. Engineering Design I (3)

ENGR 110L Introduction to Engineering (2)

LT 101 Library Research Skills (1)

HUM 100 FYE: History and Culture of Northern New Mexico (3)

Second Semester (18 cr)

ENG 111 English Composition I (3)

MATH 162E Calculus I (4)

PHYS 215/L Engineering Physics I with Lab (4)

EECE 152L Computer Programming I (4)

MATH 145 Introduction to Probability and Statistics (3)

Third Semester (18 cr)

MATH 163E Calculus II (4)

PHYS 216/L Engineering Physics II with Lab (4)

ME 202 Engineering Statics (3)

SPCH 130 Public Speaking (3)

CHEM 121/L General Chemistry I/L (4)

Fourth Semester (17 cr)

MATH 264 Calculus III (4)

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 _____