



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 (43)

COMPLETED

**Planned Timeline
(By Semester)**

Communications (9)

ENG 111 English Composition I (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

ENG 116 Technical Writing (3)

Pre-requisite: ENG 111

SPCH 130 Public Speaking (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

Mathematics (15)

MATH 145 Introduction to Probability & Statistics (3)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

MATH 162 Calculus I (4)

Pre-requisites: MATH 150 and MATH 155 or MATH 160

MATH 163 Calculus II (4)

Pre-requisite: MATH 162

MATH 264 Calculus III (4)

Pre-requisite: MATH 163

Laboratory Science (12)

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

Pre-requisite: MATH 130, high school chemistry, or an ACT score of 19 or higher in Natural Science

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

Pre-requisite: ENGR 120 OR MATH 162; Co-requisite: PHYS 215L

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

Pre-requisite: PHYS 215/L

Social/Behavioral Sciences (3)

ECON 201 Microeconomics (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

Humanities and Fine Arts (3)

HUM 100 First Year Experience: History and Culture of NNM (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

Library Technology, Library Research Skills (1)

LT 101 Library Research Skill (1)

PROGRAM REQUIREMENTS (24)

Business (3)

BA Lower division elective (3) _____

Engineering (21)

ENGR 110 Introduction to Engineering (3)

Pre-requisites: MATH 102N

ENGR 120 Introductory Mathematics for Engineering Applications (4)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

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-requisite: MATH 155 or adequate score on the Course Placement Evaluation

ME 202 Engineering Statics (3)

Pre-requisite: PHYS 215/L

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TOTAL CREDITS 67

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (15 crs)

ENGR 120 Introductory Mathematics for Engineering Applications (4)

EECE 152L 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)

SPCH 130 Public Speaking (3)

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

FOURTH SEMESTER (17 crs)

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 _____