#### PRE-ENGINEERING

#### **Associate of Science**

62 credit hours\*

The Associate of Science Degree in Pre-Engineering is intended to provide the graduate with a foundational understanding of core sciences, an in-depth foundation in mathematics, and core curriculum prerequisites.

Students working toward this degree will be eligible for a Common Core Certificate of Completion.

Upon program completion students will be able to:

- Demonstrate effective written and verbal communication skills.
- Exhibit an in-depth understanding of mathematics.
- Display foundational knowledge of chemistry, physics and engineering.
- Apply their learning to a Bachelor's of Science degree in engineering.

\*Additional hours may be required for program requirements for transfer students who are NMGEC complete.

Any student who is ineligible for state, national, or industry licensure or certification is ineligible for entry into this program.

### Institutional and Related Requirements – 9 hours

ENGL 1110 - Composition I (3)

FYEX 1110 – First-Year Seminar (3)

BCIS 1115 – Introduction to Computers (3) **OR** 

BUSA 1110 – Introduction to Business (3)

Note: If institutional/related requirements are waived, additional elective courses will be needed to meet the minimum hours required for the degree.

## Program Requirements – 29 hours Required courses:

CHEM 1215/L– General Chemistry I for STEM Majors/ Lab (4)\*\*

CHEM 1225/L— General Chemistry II for STEM Majors/ Lab (4)\*\*

ECON 2110 – Macroeconomic Principles (3) ENGL 2210 – Professional & Technical

Communication (3)

MATH 1220 – College Algebra (4)\* MATH 1230 – Trigonometry (3)

MATH 1510 - Calculus I (4) MATH 1520 - Calculus II (4)

\*May be used to satisfy NMGEC Mathematics requirement.

# New Mexico General Education Curriculum (NMGEC) – 32 hours (as itemized below)

Communications – 6 hours
Mathematics – 4 hours
Science – 4 hours
Social and Behavioral Sciences – 3 hours
Humanities – 3 hours
Creative and Fine Arts – 3 hours
Flexible Nine – 9 hours

<sup>\*\*</sup>May be used to satisfy NMGEC Science requirement.