

PRE ENGINEERING

NAS763
(CSUGE) NAS764
(IGETC) NAS765

This program is designed to prepare students for a possible major in an Engineering related field. Possible university engineering majors include: Civil Engineering, Computer Engineering and Mechanical Engineering.

Program Learning Outcomes

1. Apply differential and integral calculus, and the solutions to equations.

2. Demonstrate a working knowledge of the theories and principles of physics.
3. Conduct experiments and analyze and interpret data collected.

REQUIRED COURSES (24-26 UNITS)

COURSE	UNITS	
MAT 1A	CALCULUS I	4
MAT 1B	CALCULUS II	4
PHY 4A	MECHANICS OF PHYSICS	4

Choose one of the following:

PHY 4B OR	ELECTRICITY AND MAGNETISM	4
PHY 4C	HEAT, LIGHT AND WAVES	4

**ELECTIVES: CHOOSE FROM THE LIST BELOW* 8-10

ELECTIVE COURSES (8-10 UNITS)

CHE 1A	GENERAL CHEMISTRY, I	5
CHE 1B	GENERAL CHEMISTRY, II	5
MAT 1C	CALCULUS III	4
PHY 4B	ELECTRICITY AND MAGNETISM (if not used above)	4
PHY 4C	HEAT, LIGHT AND WAVES (if not used above)	4

Associate of Science Degree

The Associate of Science Degree in Pre Engineering will be awarded upon completion of the degree requirements including Intersegmental General Education Transfers (IGETC) and the