

Pre- Engineering

Associate of Science (AS) Degree Program

Math & Science Division

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The curriculum for pre-engineering is designed to prepare students to transfer to a four-year institution to pursue a Bachelor's Degree in an engineering field of study. The goal of the Pre-Engineering program will be to give the student a solid foundation in mathematics, physics, and the scientific skills necessary to be successful in any engineering program. To achieve an Associates of Science Degree in Pre-Engineering, the student must meet all General Core 1-6 requirements as well as the specific Core 7 & 8.

The Learning Outcomes are as follows:

- Obtain a comprehensive understanding of the physical sciences and mathematics which will prepare you for higher education in any field of engineering, science or mathematics.
- Have the broad education necessary to understand the impact of engineering solutions in a global social context.
- Outline the characteristics and contributions in all fields of engineering and decide his/her engineering major/school.

Students majoring in the Pre-Engineering program are required to take the General Core Requirements 1 – 6 for an Associate of Science (AS) Degree program as well as the following Major Core 7 and Elective Core 8 courses:

Core 7 & 8 – Pre-Engineering		29 Credits Required
CORE 7 – Pre-Engineering		23 Credits Required
		Credits
EGEN105	Intro to Engineering	3
M 151	Pre-Calculus	4
M 171	Calculus I	4
M 172	Calculus II	4
PHSX215	Fundamentals of Physics I	3
PHSX216	Fundamentals of Physics I Lab	1
PHSX217	Fundamentals of Physics II	3
PHSX218	Fundamentals of Physics II Lab	1
CORE 8 - Electives		6 Credits Required
		Credits
PHL 132	Critical Thinking	3
(ANY) CSCI		3
(ANY) SCI		3
CHMY 121	Introduction to Chemistry	3
WRIT 121	Introduction to Technical Writing	3
STAT 216	Intro to Statistics	4
(ANY) M		3