

Pre-Engineering • Associate in Science

Why Choose Pre-Engineering?

This program was developed to give students a broad overview of the engineering field. Students take general education courses as well as pre-engineering courses to give them the required knowledge and skills necessary to gain entrance to an engineering college.

Pre-Engineering is designed for students who intend to transfer to an engineering college to earn a bachelor's degree in engineering or a related field. The program is based on courses that are fundamental to all engineering disciplines.

Get a Great Job

The Pre-Engineering program at Ferris is a great place to begin a career in the well-paid engineering field, a field that grows larger every year.

Admission Requirements

First year student admission is open to high school graduates (or equivalent) who demonstrate academic preparedness, maturity and seriousness of purpose with educational backgrounds appropriate to their chosen program of study. High school courses and grade point average, ACT composite score, and ACT reading and mathematics subscores will be considered in the admission and placement process. Transfer students must have at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course, or they must provide their high school records and ACT scores for admission review.

Graduation Requirements

The Pre-Engineering program at Ferris leads to an associate in science degree. Graduation requires a minimum 2.0 GPA overall. Students should know that many engineering colleges prefer a 3.0 college GPA for transfer coursework. Students must complete a minimum of 60 college credits including all general education requirements as outlined on the General Education website.

Required Courses

Credit Hours

General Education:

This degree requires completion of the General Education requirements for an Associate in Science degree. Details of these requirements are delineated on the General Education website. Courses listed below as program/major required courses with the indicators: C, S, Z, R, G, may also be used to satisfy some of these general education requirements.

ENGL 150	English 1	3
ENGL 250	English 2	3
Choose one:		
COMM 105	Interpersonal Communication	3
OR		
COMM 121	Fundamentals of Public Speaking	3
	Social Awareness Electives	9
	Cultural Enrichment Electives	9
CHEM 121	General Chemistry 1 *Z	5
CPSC 200	Object Oriented Programming	4
MATH 220	Analytical Geometry & Calculus 1	5
MATH 230	Analytical Geometry & Calculus 2	5
MATH 320	Analytical Geometry & Calculus 3	3
MATH 322	Linear Algebra	3
MATH 330	Differential Equations	3
PHYS 241	General Physics 1 *Z	5
PHYS 242	General Physics 2 *Z	5
Minimum credit hours required for A.S. degree:		60



More Information

Department of Mathematics
Ferris State University
820 Campus Drive/ASC 2021
Big Rapids, MI 49307-2225
Phone: 231-591-2565

FERRIS STATE UNIVERSITY

C O L L E G E O F A R T S & S C I E N C E S