

# Pre-Engineering

Associate in Science

**Program/CIP Code:** PRE.ENGR.AS/24.0101

**Credits Required:** 66

**Division:** Math, Science & Business Technology

**Contact:** [MSBT@kckcc.edu](mailto:MSBT@kckcc.edu)

The mission of the Engineering Program is to produce two-year graduates with the breadth and depth of knowledge in engineering to become lifelong productive members of the regional workforce and the local society. The main goal of the Pre-Engineering program is to prepare students to successfully complete an engineering degree program at an institution of their choice. The faculty members serve as advisors to students who plan to study engineering. Students who complete the two-year program may enter most engineering schools as juniors.

The pre-engineering program provides courses in computer drafting, computer programming, and all the English, mathematics, and science courses generally required in the first two years of an engineering curriculum. When students complete the pre-engineering program, they may transfer to a college of engineering at another university.

**Note:** Students should seek advisement from a counselor/advisor about how requirements vary in the different fields of engineering.

### Requirements for admission to the program:

- No requirements for admission to the program.
- Contact program for program-specific advising.

### College Requirement

Course		Credit Hours
BLUE 0101	Freshman Seminar	1

### General Education Requirements

Course		Credit Hours
ENGL 0101	Composition I*	3
ENGL 0102	Composition II*	3
SPCH 0151 <b>OR</b> SPCH 0201	Public Speaking <b>OR</b> Interpersonal Communication	3
	Humanities Elective (2 disciplines)	6
	Social Science Elective (2 disciplines)	6
MATH 0122	Calculus and Analytic Geometry I**	5
MATH 0123	Calculus and Analytic Geometry II**	5
CHEM 0111	College Chemistry I and Lab*	5
BIOL 0121	General Biology	5
<b>Total Hours for General Education Requirements</b>		<b>41</b>

\*See course syllabus for prerequisites.

\*\* Math sequence is contingent upon previous high school mathematics background and transfer institution. Students should confer with an advisor to determine correct placement.

**Pre-Engineering Requirements\***

<b>Course</b>		<b>Credit Hours</b>
MATH 0224	Calculus and Analytic Geometry III	5
MATH 0227	Differential Equations	3
NASC 0245	Engineering Physics I	5
NASC 0246	Engineering Physics II	5
NASC 0248	Statics	3
NASC 0249	Dynamics	3
<b>Total Hours for Pre-Engineering Requirements</b>		<b>24</b>
*See course syllabi for Pre-Engineering course prerequisites.		

<b>Total Hours for an Associate in Science in Pre-Engineering Degree</b>	<b>66</b>
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