

This curriculum is designed for students who plan to major in engineering. Engineering combines mathematical theory, practical design theory, and scientific computing to address today's technology challenges. While there are some opportunities for employment after two years, many careers require a Bachelor of Science degree or an advanced degree. Students planning to complete a four-year degree should enroll in the A.S. program.

### Minimum General Education Required Courses 33 cr

*Communication Requirement* 9

- \_\_\_CM101 English Composition I (3 cr)
- \_\_\_CM102 English Composition II (3 cr)
- \_\_\_CM115 Public Speaking (3 cr) **or**
- \_\_\_CM240 Interpersonal Communications (3 cr)

*Humanities Requirement (2 areas required)* 6

- \_\_\_Art                                    \_\_\_Humanities
- \_\_\_Music                                \_\_\_Literature
- \_\_\_Theatre                              \_\_\_Philosophy
- \_\_\_Foreign Language                \_\_\_History

*Mathematics Requirement* 3

- \_\_\_Mathematics General Education Course

*Natural Science Requirement (2 areas required)* 9

- \_\_\_SC131 Chemistry I (5 cr)
- \_\_\_^Biological Science (w/lab) (4-5 cr)

*^Physical Science majors should consult their advisor about a substitution of a physical science.*

*Social/Behavioral Science Requirement* 6

- \_\_\_EC101 Principles of Macroeconomics 3
- (1 additional area required) 3
- \_\_\_Anthropology                    \_\_\_Geography
- \_\_\_Psychology                      \_\_\_Political Science
- \_\_\_Sociology

### Required Mathematics & Engineering Courses 13 cr

Choose 13 hours from the following:

- \_\_\_MA112 Trigonometry 3
- \_\_\_MA120 Analytic Geometry and Calculus I 5
- \_\_\_MA121 Analytic Geometry and Calculus II 5
- \_\_\_SC142 University Physics I 5
- \_\_\_SC143 University Physics II 5

### Elective Courses\* (See reverse side for complete listing) 10 cr

- \_\_\_Elective \_\_\_\_\_
- \_\_\_Elective \_\_\_\_\_
- \_\_\_Elective \_\_\_\_\_

### Open Electives\*\* 6 cr

- \_\_\_EC102 Principles of Microeconomics (suggested) 3
- \_\_\_Elective \_\_\_\_\_
- \_\_\_Elective \_\_\_\_\_

**Total Credits Required 62**

\*All electives should be selected with assistance from an advisor.

\*\*Any non-technical, non-developmental course may be used to fulfill open elective requirements.

*General Education substitutions must be approved by the Vice President for Academic Affairs. Program substitutions must be approved by the department chair.*

#### First Semester:

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#### Second Semester:

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#### Third Semester:

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#### Fourth Semester:

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Anticipated Graduation \_\_\_\_\_ Total Hours \_\_\_\_\_  
Minimum 62 credit hrs. with minimum GPA 2.0.



There are many factors to consider when picking the college and the degree that are the best match for you. Explore [ksdegrestats.org](http://ksdegrestats.org) to learn more about the specific costs of each undergraduate degree program offered in Kansas, and the earnings those graduates are making today.

The Associate of Science elective options listed below are organized by area of interest. All electives should be selected with assistance from an advisor. Program substitutions must be approved by the department chair.

**Engineering**

__MA122 Analytic Geometry and Calculus III.....	5
__MA123 Differential Equations .....	4
__SC132 Chemistry II.....	5
__SC140 College Physics I.....	5
__SC141 College Physics II.....	5
__SC142 University Physics I.....	5
__SC143 University Physics II .....	5

**Engineering Technology**

__BE160 Business Accounting .....	3
__MA122 Analytic Geometry & Calculus III .....	5
__MA123 Differential Equations .....	4
__SC132 Chemistry II.....	5
__SC140 College Physics I.....	5
__SC141 College Physics II.....	5
__SC142 University Physics I.....	5
__SC143 University Physics II .....	5

**Math**

__MA114 Elementary Statistics.....	3
__MA122 Analytic Geometry and Calculus III.....	5
__MA123 Differential Equations .....	4
__SC132 Chemistry II.....	5
__SC140 College Physics I.....	5
__SC141 College Physics II.....	5
__SC142 University Physics I.....	5
__SC143 University Physics II .....	5

**Other Elective Options**

__BE100 Introduction to Business.....	3
__BE153 Personal Finance.....	3
__CS108 Computer Applications.....	3
__CS155 Networking & Computer Technology.....	3
__MA220 Cooperative Education Internship.....	1-2
__SC104 Geology.....	4
__SC107 Meteorology.....	4
__SC151 Principles of Biology II.....	5