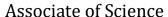


Minimum General Education Required Courses 33 cr

Mathematics & Engineering





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.

Communication Requirement	9	"All electives should be selected with assistance from an advisor.
CM101 English Composition I (3 cr)CM102 English Composition II (3 cr)CM115 Public Speaking (3 cr) <i>or</i>		**Any non-technical, non-developmental course may be used to fulfill open elective requirements.
CM240 Interpersonal Communications (3 cr)		General Education substitutions must be approved by the Vice President for Academic Affairs. Program substitutions must be approved by the
Humanities Requirement (2 areas required) ArtHumanities MusicLiterature TheatrePhilosophy Foreign LanguageHistory	6	department chair: First Semester:
Mathematics RequirementMathematics General Education Course	3	
Natural Science Requirement (2 areas required) SC131 Chemistry I (5 cr) ^Biological Science (w/lab) (4-5 cr)	9	Second Semester:
^Physical Science majors should consult their advisor about a substitu physical science.	tion of a	
Social/Behavioral Science Requirement EC101 Principles of Macroeconomics 3 (1 additional area required) 3 AnthropologyGeography PsychologyPolitical ScienceSociology	6	Third Semester:
Required Mathematics & Engineering Course Choose 13 hours from the following:	s 13 cr	Fourth Semester:
MA112 Trigonometry MA120 Analytic Geometry and Calculus I MA121 Analytic Geometry and Calculus II SC142 University Physics I SC143 University Physics II	3 5 5 5 5	
Elective Courses* (See reverse side for complete listing) ElectiveElective	10 cr — —	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
Open Electives** EC102 Principles of Microeconomics (suggested)ElectiveElective	6 cr	Kansas DegreeStats The properties of the degree stats of the specific costs of each undergraduate degree program offered in Kansas, and the earnings those graduates are making today.
Total Cradite Paguir	ad 62	

Total Credits Required 62



Mathematics & Engineering



Associate of Science

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	
MA123 Differential Equations	
SC132 Chemistry II	
SC140 College Physics I	
SC141 College Physics II	
SC142 University Physics I	
SC143 University Physics II	5
Other Elective Options	
BE100 Introduction to Business	
BE153 Personal Finance	3
CS108 Computer Applications	3
CS155 Networking & Computer Technology	
MA220 Cooperative Education Internship	
SC104 Geology	4
SC107 Meteorology	4
SC151 Principles of Riology II	5