

Renewable Energy is an essential component of a sustainable future. This curriculum is designed to help prepare a student for work in the Renewable Energy field. The college energy park and working substation lab provide hands-on training opportunities for students.

Required General Education Courses 25 cr

- Communication Requirement 6**
 __CM101 English Composition I (3 cr) *or*
 __CM120 Survey of Technical Writing (3 cr)
 __CM115 Public Speaking (3 cr) *or*
 __CM240 Interpersonal Communications (3 cr)
- Mathematics Requirement 3**
 __Mathematics General Education Course (3 cr) *or*
 __MA110 Intermediate Algebra (3 cr)
- Humanities Requirement 3**
 __Art __Humanities
 __Music __Literature
 __Theatre __Philosophy
 __Foreign Language __History
- Social/Behavioral Science Requirement 3**
 __Economics __Anthropology
 __Psychology __Political Science
 __Sociology __Geography
- Humanities *or* Social Science Requirement 3**
(Must be from second area)
- Natural Science Requirement 4**
 __Physical Science (w/lab) *or* __Biological Science (w/lab)
- Open General Education Elective 3**

Any non-developmental course may be used to fulfill open elective requirements.

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

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

First Semester:

Second Semester:

Third Semester:

Fourth Semester:

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 ksdegreestats.org to learn more about the specific costs of each undergraduate degree program offered in Kansas, and the earnings those graduates are making today.

Required Renewable Energy Courses 12 cr

- __SE100 Introduction to Solar Energy 3
 __UA100 Introduction to sUAS 3
 __WE100 Introduction to Wind Energy 3
 __WE110 Electrical Theory 3

Elective Courses* (See reverse side for complete listing) 19 cr

- __Elective _____
 __Elective _____
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 __Elective _____

Open Electives* 6 cr

- __Elective _____
 __Elective _____
 __Elective _____

Total Credits Required 62

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

Business

__BE100 Introduction to Business	3
__BE152 Salesmanship	3
__BE154 Business Law	3
__BE155 Marketing	3
__BE160 Business Accounting	3
__BE170 Business Statistics	3
__BE185 Human Resource Management	3
__BE188 Principles of Advertising	3
__EC101 Principles of Macroeconomics	3
__EC102 Principles of Microeconomics	3
__MG101 Management Principles	3
__MG102 Introduction to Entrepreneurship	3

Political Science and History

__HI122 U.S. History I	3
__HI123 U.S. History II	3
__SS130 Introduction to Sociology	3
__SS140 U.S. Government: National	3
__SS141 U.S. Government: State and Local	3
__SS142 Current Political Issues	3

Additional Electives

__CS108 Computer Applications	3
__CS155 Networking and Computer Technology	3
__MA114 Elementary Statistics	3
__SC107 Meteorology	4
__SC109 Applied Physics	3

Life Skills

__BE139 Basic Personal Finance	1
__BE210 Leadership Development	3
__PE141 Personal Wellness	3
__PE250 Stress Management	3
__SS106 Marriage & Family	3

Energy Technology

__IE117 OSHA 10-Hour General Industry Training	1
__SE101 Solar Energy Fundamentals	3
__SE102 Solar Energy Design	3
__SE103 Solar Energy Operations & Maintenance	3
__SE201 Advanced Solar Energy Design	3
__SE202 Advanced Solar Energy Installation	3
__SE203 Solar Energy System Commissioning	3
__SE204 Solar Energy Advanced Op. & Maint.	3
__UA201 sUAS Command, Control, and Comm.	3
__UA210 UAS Systems & Conceptual Design	3
__WE105 Empl. Skills, Safety, & Blueprint Reading	3
__WE120 Hydraulics	3
__WE150 Mechanical Systems	3
__WE202 Electrical Power Delivery	3
__WE210 Electronics	3
__WE215 Electrical Sys, Protection and Coord.	3
__WE220 Cooperative Education Internship	3
__WE225 Motors, Generators, PLC's	3
__WE227 PLC's	3
__WE230 Substation & Voltage Regulation	3
__WE240 GIS/GPS	3
__WE250 Data Acquisition & Communications	3
__WE255 Airfoils & Composite Repair	3
__WE257 Applied Airfoils	3
*__WE262 Blade Repair Operations	3
*__WE265 Field Training & Project Operations	3
__WE270 Transformer Theory	3
__WE280 Wind Energy Technology Internship	1-4

*Must have a physical on file prior to enrolling in this course.