

This educational program will produce a qualified workforce of Wind Energy Technicians to serve the emerging wind industry throughout the United States and potentially worldwide. Graduates of the program will possess the necessary skills to secure a position with a modern commercial wind farm operation or an industry career related to the production of electrical energy. A certificate is part of a stackable degree plan where a student who takes the first year of the associate program can get gainful employment based upon receiving a certification in the discipline.

#### General Education Required Courses **6 cr**

*Communication Requirement* 3

- \_\_CM101 English Composition I (3 cr) *or*
- \_\_CM120 Survey of Technical Writing (3 cr)

*Mathematics Requirement* 3

- \_\_MA104 Technical Math (3 cr) *or*
- \_\_MA110 Intermediate Algebra (3 cr) *or*
- \_\_Mathematics General Education Course

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

*Program substitutions must be approved by the department chair.*

#### Required Wind Energy Courses **21 cr**

- \_\_WE100 Introduction to Wind Energy 3
- \_\_WE110 Electrical Theory 3
- \_\_WE120 Hydraulics 3
- \_\_WE150 Mechanical Systems 3
- \_\_WE210 Electronics 3
- \_\_WE225 Motors, Generators, PLC's 3
- \_\_\*WE265 Field Training & Project Operations 3

#### **Recommended Course Sequence:**

First Semester: WE100, WE110, WE150, MA110,  
CM101/CM120

Second Semester: WE120, WE210, WE225, WE265

#### **First Semester:**

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#### **Second Semester:**

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Anticipated Completion \_\_\_\_\_ Total Hours \_\_\_\_\_  
Minimum 33 credit hrs. with minimum GPA 2.0.

#### Elective Courses\*\* **6 cr**

- \_\_CS140 Introduction to Robotics 3
- \_\_CS155 Networking & Computer Technology 3
- \_\_SE100 Introduction to Solar Energy 3
- \_\_UA100 Introduction to sUAS 3
- \_\_UA110 sUAS Ground School 3
- \_\_WE230 Substation & Voltage Regulation 3
- \_\_WE250 Data Acquisition & Communications 3
- \_\_WE255 Airfoils and Composite Repair 3
- \_\_WE280 Wind Energy Technology Internship 1-4

#### **Total Credits Required 33**

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



There are many factors to consider when picking the college and the degree that are the best match for you. Explore [ksdegreestats.org](http://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.

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

# GENERAL EDUCATION COURSES

## Catalog year 2023 – 24

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### COMMUNICATIONS

- CM101 English Composition I [placement]
- CM102 English Composition II [Comp I]
- CM106 Creative Writing (AA/AS only)
- CM115 Public Speaking
- CM120 Survey of Technical Writing (Cert/AAS/AGS only)  
[placement or Transitional English]
- CM240 Interpersonal Communications

### HUMANITIES

Arts AR100 Art Appreciation

#### Foreign Language

- FL105 French I
- FL111 Spanish I
- FL113 German I

#### History

- HI108 Women in American Society
- HI120 World History I
- HI121 World History II
- HI122 US History I
- HI123 US History II
- HI124 Introduction to History

#### Humanities

- CM106 Creative Writing
- HU201 Humanities I [Comp I]
- HU202 Humanities II [Comp I]
- JN100 Mass Media in Society

#### Literature

- CM121 Intro to Literature [Comp I]
- CM122 American Literature I [Comp I]
- CM123 American Literature II [Comp I]
- CM124 World Literature [Comp I]
- CM127 The Short Story [Comp I]

#### Music

- MU100 Music Appreciation
- MU101 American Music
- MU102 World Music
- MU103 History of Rock Music

#### Philosophy

- PH100 Intro to Philosophy
- PH105 Ethics
- RE104 World Religion

#### Theatre

- CM140 Theater Appreciation
- CM148 American Cinema Appreciation

### MATHEMATICS

- MA104 Technical Math (Cert/AAS only)
- MA105 Survey of Math (Cert/AAS only)
- MA110 Intermediate Algebra [placement]  
(Cert/AAS/AGS only)
- MA111 College Algebra [placement]
- MA112 Trigonometry [Col Alg or placement]
- MA114 Elementary Statistics [placement or College Alg]
- MA115 General Calculus [College Algebra]

### MATH CON'T.

- MA120 Analytical Geom/Calc I [see catalog]
- MA121 Analytical Geom/Calc II [Calc I]
- MA130 Contemporary Math [placement or Interm Alg]

### NATURAL SCIENCES

#### Biological Science

- SC101 General Biology
- SC110 Principles of Biology I
- SC120 Human Anatomy & Physiology I
- SC126 Anatomy and Physiology
- SC151 Principles of Biology II

#### Physical Science

- SC103 Physical Science [Int Alg or placement]
- SC104 Geology
- SC105 General Astronomy
- SC107 Meteorology
- SC130 General Chemistry [Elem Alg or placement]
- SC131 Chemistry I [Int Alg or placement]
- SC137 Natural Hazards & Disasters
- SC138 Natural Hazards & Disasters Lab
- SC140 College Physics I [see catalog]
- SC142 University Physics [co-req Calc I]
- SC146 Environmental Science and Conservation
- SC147 Environmental Science and Conservation Lab

### SOCIAL / BEHAVIORAL SCIENCES

#### Anthropology

- SS125 Intro to Cultural Anthropology

#### Economics

- EC101 Principles of Macroeconomics
- EC102 Principles of Microeconomics

#### Geography

- GE101 World Geography

#### Political Science

- SS140 US Government – National
- SS141 US Government – State & Local
- SS142 Current Political Issues
- SS150 Introduction to International Relations

#### Psychology

- SS101 General Psychology
- SS105 Human Growth & Development

#### Sociology

- SS106 Marriage & Family
- SS130 Introduction to Sociology
- SS131 Cultural Diversity and Ethnicity
- SS201 Social Problems

Pre-requisites are listed in [ ]

Students should see the current catalog for specific program requirements.

The Kansas Board of Regents has approved courses for guaranteed transfer among all Kansas public postsecondary institutions. Visit [www.kansasregents.org/transfer\\_articulation](http://www.kansasregents.org/transfer_articulation) for more information.

5/17/23

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