

# RENEWABLE ENERGY

## Associate of General Studies 62 Hour

### Required General Education Courses 25 cr

<i>Communication Requirement</i>	6
CM101 English Composition I (3 cr) <b>or</b>	
CM120 Survey of Technical Writing (3 cr)	
CM115 Public Speaking (3 cr) <b>or</b>	
CM240 Interpersonal Communications (3 cr)	

<i>Mathematics Requirement</i>	3
Mathematics General Education Course <b>or</b>	
MA110 Intermediate Algebra (3 cr)	

<i>Humanities Requirement</i>	3
Art	Humanities
Music	Literature
Theatre	Philosophy
Foreign Language	History

<i>Social/Behavioral Science Requirement</i>	3
Economics	Anthropology
Psychology	Political Science
Sociology	Geography

<i>Humanities or Social Science Requirement</i> (Must be from second area)	3
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<i>Natural Science Requirement</i>	4
Physical Science w/lab <b>or</b>	
Biological Science w/lab	

<i>Open General Education Elective</i>	3
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### 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 19 cr

#### 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 US History I	3
HI123 US History II	3
SS130 Introduction to Sociology	3
SS140 U.S. Gov't: National	3
SS141 U.S. Gov't: State and Local	3
SS142 Current Political Issues	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 O&M	3
UA201 sUAS Command, Control, and Communication	3
UA210 UAS Systems & Conceptual Design	3
WE102 Energy Industry Fundamentals	3
WE105 Employability Skills, Safety, & Blueprint Reading	3
WE120 Hydraulics	3
WE130 Wind Public/Landowner Relations	3
WE150 Mechanical Systems	3
WE202 Electrical Power Delivery	3
WE205 Wind Business	3
*WE210 Electronics	3
*WE215 Electrical System Protection and Coordination	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 & Communication	3
WE255 Airfoils & Composite Repair	3
WE257 Applied Airfoils	3
WE260 Wind Turbine Siting	3
*WE262 Blade Repair Operations	3
*WE265 Field Training & Project Operations	3
*WE270 Transformer Theory	3
WE280 Wind Energy Technology Internship	1-4

### Additional Electives

CS108 Computer Applications	3
CS155 Networking and Computer Technology	3
MA114 Elementary Statistics	3
SC107 Meteorology	4
SC109 Applied Physics	3
SC146 Environmental Science and Conservation	3
SC147 Environmental Science and Conservation Lab	1

### Life Skills

BE139 Basic Personal Finance	1
BE210 Leadership Development	3
PE141 Personal Wellness	3
PE250 Stress Management	3
SS106 Marriage and Family	3

### Open Electives 6 cr

\*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.