

# RENEWABLE ENERGY

## Solar Energy 33-Hour Certificate

### General Education Required Courses 6 cr

<i>Communication Requirement</i>	3
CM115 Public Speaking (3 cr) <b>or</b> CM240 Interpersonal Communications (3 cr)	
<i>Mathematics Requirement</i>	3
MA110 Intermediate Algebra (3 cr) <b>or</b> Mathematics General Education Course	

### Required Solar Energy Courses 21 cr

SE100 Introduction to Solar Energy	3
SE101 Solar Energy Fundamentals	3
SE102 Solar Energy Design	3
SE103 Solar Energy Operations & Maintenance	3
WE105 Employability Skills, Safety, & Blueprint Reading	3
WE110 Electrical Theory	3
*WE250 Data Acquisition & Communications	3

### Elective Courses 6 cr

BE160 Business Accounting	3
BE170 Business Statistics	3
CS108 Computer Applications	3
CS155 Networking and Computer Technology	3
MG102 Introduction to Entrepreneurship	3
SC109 Applied Physics	3
WE100 Introduction to Wind Energy	3
*WE210 Electronics	3
*WE225 Motors, Generators, PLC's	3
*WE230 Substation & Voltage Regulations	3
*WE270 Transformer Theory	3
WE280 Wind Energy Technology Internship	1-4

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

