



**Associate of Applied Science
in
RENEWABLE ENERGY**

GENERAL EDUCATION (28)

COMPLETED

**Planned Timeline
(By Semester)**

Communications (9)

- ENG 111 English Composition I (3)
Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation
- ENG 116 Technical Writing (3)
Pre-requisite: ENG 111
- SPCH 130 Public Speaking (3)
Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

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Mathematics/Computers/Laboratory Science (10)

- ENGR 110 Introduction to Engineering (2)
Pre-requisite: None
- ENGR 115 Basic Math for Engineering Applications (4)
Pre-requisites: MATH 100
- Choose one of the following electives:
- PHYS 121/L Applied Physics with lab (4)
Pre-requisite: MATH 130
- PHYS 215/L Engineering Physics with lab (4)
Pre-requisite: MATH 162 or ENGR 120L

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Social/Behavioral Sciences (3)

- Elective (3) _____
- You must select courses from the approved list in the Catalog for GenEd**

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Humanities and Fine Arts (3)

- Elective (3) _____
- You must select courses from the approved list in the Catalog for GenEd**

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First Year Experience (3)

- FYE100 First Year Experience (3)
Pre-requisite: None

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PROGRAM REQUIREMENTS (33-35)

General (3)

- RE 103 Renewable Energy Introduction and Overview (3)
Pre-requisite: ENGR 108 and MATH 100N

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Solar Heating (8)

- ADOB 107 Passive Solar Heating (3)
Pre-requisite: ENGR 108 and MATH 100N
- RE 108 Active Solar Heating (3)
Pre-requisite: ENGR 108 and MATH 100N
- RE 108L Solar Energy Lab (2)
Pre-requisite: ENGR 108 and MATH 100N

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Renewable Electric and Electronics (20)

- ELEC 110 Introduction to Solar Electricity (1)
Pre-requisite: None
- ELEC 110L Introduction to Solar Electricity Lab (2)
Pre-requisite: None
- ELEC 140 Electrical Theory I (3)
Pre-requisite: None
- ELEC 141 Electrical Code I (3)
Pre-requisite: None

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ELEC 150	Electrical Theory II (3)	_____	_____
<i>Pre-requisite: None</i>			
ELEC 151	Electrical Code II (3)	_____	_____
<i>Pre-requisite: None</i>			
ELEC 190	Solar and Wind Systems in Electric Code (2)	_____	_____
<i>Pre-requisite: None</i>			
RE 111	Beginning Photovoltaic Installation (3)	_____	_____
<i>Pre-requisite: None</i>			
Renewable Electric and Electronics Electives (2-4)			
Choose from the following:			
RE 127	Geothermal Systems for Heat and Power (4)	_____	_____
<i>Prerequisite: RE 103</i>			
RE 128	Biomass Systems for Heat, Power, and Cogeneration (4)	_____	_____
<i>Prerequisite: RE 103</i>			
RE 129	Trends and Emerging Energy Sources (2)	_____	_____
<i>Prerequisite: RE 103</i>			
RE 160	Renewable Electric Power Systems (3)	_____	_____
<i>Prerequisite: RE 103</i>			
RE 207	Wind Electric System Design and Installation (4)	_____	_____
<i>Prerequisites: ENG 108N, MATH 100N, RE 103</i>			
<i>Co-requisite: ELEC 190 (2)</i>			
RE 208	Photovoltaic System Design and Installation (4)	_____	_____
<i>Prerequisites: ENG 108N, MATH 100N, RE 103 and ECET 160.</i>			
<i>Co-requisite: ELEC 190</i>			
RE 212	Advanced Photovoltaic Installation (3)	_____	_____
<i>Pre-requisite: None</i>			
TOTAL CREDITS			61-63

SUGGESTED SEQUENCE OF COURSES

First Semester (14 cr)

- ENG 111 English Composition I (3)
- FYE 100 First Year Experience (3)
- ENGR 110L Introduction to Engineering (2)
- ELEC 140 Electrical Theory I (3)
- RE 103 Renewable Energy Introduction and Overview (3)

Second Semester (16 cr)

- ELEC 110 Introduction to Solar Energy (1)
- ELEC 110L Introduction to Solar Energy Lab (2)
- ENGR 115 Basic Math for Engineering Apps (4)
- ELEC 150 Electrical Theory II (3)
- ELEC 141 Electrical Code I (3)
- ADOB 107 Passive Solar Heating (3)

Third Semester (15 cr)

- ELEC 151 Electrical Code II (3)
- ELEC 190 Solar and Wind Systems in Electric Code (2)
- ENG 116 Technical Writing (3)
- PHYS Elective (4)
- RE 111 Beginning Photovoltaic Installation (3)

Fourth Semester (16-18 cr)

- SPCH 130 Public Speaking (3)
- RE Elective (2-4)
- RE 108 Active Solar Heating (3)
- RE 108L Solar Energy Lab (2)
- SBS Elective (3)
- HFA Elective (3)

Educational Planning Form (Semester)

Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units