

# CLOUD COUNTY COMMUNITY COLLEGE RENEWABLE ENERGY SOLAR ENERGY

## ASSOCIATE OF APPLIED SCIENCE DEGREE



**START  
HERE**

**High School  
Diploma  
or GED**

**One-year Solar Energy  
Certification or  
Two-year Associate  
of Applied Science  
degree. Can also  
obtain industry  
recognized NABCEP  
solar energy Associate  
Certificate.**

**Entry level  
Solar Technical  
\$15-18/hour  
\$34,000/year**

**Two-year AAS Degree  
NABCEP Installation  
Professional Certification  
Requirements:  
40 hours advanced training  
Minimum of three solar  
installs  
OSHA Construction 10 or  
30hr Card**

**Solar Crew Lead/  
Solar Project  
Designer  
\$25+ /hour  
\$48,000/year**

**Obtain a NABCEP Technical  
Sales Certificate**

**Owner of your own  
Solar Installation  
Company  
\$60,000-75,000/year**





# SOLAR ENERGY

## Associate of Applied Science Degree

### Suggested Course Pathway Outline

#### 1st Year – Solar Energy Technology Certificate is Earned / Take NABCEP Associate Exam at Completion

##### First Semester

SE 100 Introduction to Solar PV	3 hours
SE 101 Solar PV Fundamentals	3 hours
WE 110 Electrical Theory	3 hours
WE 250 Data Acquisition & Communications	3 hours
MA 110 Intermediate Algebra	3 hours
WE/SE Elective Credit	3 hours
<b>Total</b>	<b>18 hours</b>

##### Second Semester

SE 102 Solar PV Design	3 hours
SE 103 Solar PV Operations & Maintenance	3 hours
WE 105 Employability Skills, Safety, Blueprint Reading	3 hours
CM101 English Composition I	3 hours
WE 210 Electronics	3 hours
<b>Total</b>	<b>15 hours</b>
<b>Certificate Total</b>	<b>33 hours</b>

*(Summer Internship in Solar -Optional)*

#### 2nd Year – AAS Degree is Earned/Qualify for NABCEP Installer Professional Exam at Completion

##### Third Semester

SE 201 Advanced PV Design	3 hours
SE 202 Advanced PV Installation	3 hours
HU ### Humanities Elective	3 hours
SC 109 Applied Physics	3 hours
SC 107 Meteorology w/Lab (suggested)	4 hours
<b>Total</b>	<b>16 hours</b>

##### Fourth Semester

SE203 Solar PV System Commissioning	3 hours
SE204 Solar PV Advanced O&M	3 hours
SS ### Elective (EC 101 suggested)	3 hours
SE/WE Elective	3 hours
SE/WE Elective	3 hours
<b>Total</b>	<b>15 hours</b>
<b>Degree Total</b>	<b>64 hours</b>

*(NABCEP is the North American Board of Certified Energy Practitioners. This is the industry recognized certification testing that companies use to qualify employees and find prospective qualified employees.)*



**CLOUD COUNTY**  
**Community College**

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