

Renewable Energy Technician

Holland code family: Doers

About the Program

The Renewable Energy Technician four-term certificate program is designed for students seeking entry-level positions in renewable energy manufacturing, installation, site evaluation, and service industries. Typical occupations include those of renewable energy technician, solar PV racking installer, energy system site evaluator, manufacturing technician, or limited energy auditor.

The program emphasizes green technologies, electronics fundamentals, practical troubleshooting and systems site evaluation and design. Technical courses involve extensive lab work using solar photo-voltaic panels, wind and hydro generators, chargers, batteries, inverters, and industry standard test equipment to design, build and test systems. Site evaluation training for system efficiencies and cost analysis is accomplished through hands-on use of specialized equipment and software. The certificate also helps prepare students for the entry-level North American Board of Certified Energy Practitioners (NABCEP) industry certification test.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit www.roguecc.edu/GainfulEmployment.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by the results of their placement assessment. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Electronics Technology department chair's recommendation. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services Office and the Electronics Technology Department.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

What skills will you learn?

Visit <http://go.roguecc.edu/department/program-learning-outcomes>.

What are the employment opportunities?

Visit <http://www.roguecc.edu/GainfulEmployment>.

Prerequisites

Course No.	Course Title	Credits
CS__	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency ¹	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
Total Prerequisite Credits		0-16

Required Courses

Course No.	Course Title	Credits
First Term		
EET113	Exploration of Alternative Energies	3
EET125	Electronics Fundamentals I	6
MTH63	Applied Technical Math/Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
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Second Term

EET118	Introduction to Renewable Energy Systems (RES)	5
EET129	Introduction to Embedded Systems	5
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
		13-14

Third Term

EET120	Renewable Energy Systems (RES) Site Analysis and Design	4
EET126	Electronics Fundamentals II	6
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
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Fourth Term

EET121	North American Board of Certified Energy Practitioners (NABCEP) Entry-level Preparation	2
EET130	Digital Fundamentals I	6
HE112	Emergency First Aid	1
	Approved program elective	3-6
		12-15

TOTAL PROGRAM CREDITS

51-55

Approved Program Electives

(3-6 credits required)

Course No.	Course Title	Credits
CS125	Any computer science course, CS125 or above	variable
EET104	Fundamentals of Manufacturing Electronics	4
EET127	Exploring the Raspberry Pi	3
EET131	Digital Fundamentals II	6
EET140	Solid State Fundamentals	6
EET180	Cooperative Work Experience/Electronics	1-5
GS104	Physical Science with lab	44

¹ Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

For more information contact the Electronics Technology Department:

Grants Pass or Medford.	541-245-7809
Toll free in Oregon.800-411-6508, Ext. 7809
E-mail.	electronics@roguecc.edu
Web address	www.roguecc.edu/Electronics
TTY	Oregon Telecom Relay Service, 711

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This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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