



RENEWABLE ENERGY TECHNOLOGY- RET

Certificate (54 credits)

Associate of Applied Science Degree (105 credits)

2015-16

All program prerequisites must be completed by the application deadline and be completed with a grade of "C" or better. Required prerequisites are: MTH 95, WR 115, RD 115, and CAS 133. If your math is older than one academic year, you must take a college placement test and test into MTH 111.

Courses Offered by Term	Required Courses	Course Title	Credits
<i>Certificate Classes— Prepares students for employment in renewable energy with a focus on the wind industry. This industry seeks employees with skills in electrical engineering, electronics, and mechanical engineering. The certificate provides a basic level of know ledge in these areas and skills in computer applications, math, and writing.</i>			
Fall	<input type="checkbox"/> EET 111	DC Circuits	5
Fall	<input type="checkbox"/> MEC 121	Mechanical Power 1	5
Fall	<input type="checkbox"/> MTH 111	College Algebra	5
Fall	<input type="checkbox"/> SAF 188	Industrial Safety & OSHA 10	2
Winter	<input type="checkbox"/> EET 112	AC Circuits	5
Winter	<input type="checkbox"/> MEC 120	Hydraulics	5
Winter	<input type="checkbox"/> RET 101	Introduction to Wind Turbine Operations	2
Winter	<input type="checkbox"/> WR 121	English Composition	4
Winter	<input type="checkbox"/> CG 209	Job Finding Skills	1
Winter	<input type="checkbox"/> RET 102	Alternate Energy Resources	1
Spring	<input type="checkbox"/> EET 113	AC Power	5
Spring	<input type="checkbox"/> MEC 122	Mechanical Power 2	5
Spring	<input type="checkbox"/> EET 141	Electrical Motors/Generator Control	5
Spring	<input type="checkbox"/> PSY 101	Psychology & Human Relations	4
<i>Degree Classes – Prepares students for employment in a broad range of industries. These include hydro-generation, wind generation, solar-generation, automated manufacturing, or engineering. The degree provides a basic level of knowledge in these areas and skills in programmable logic controllers, industrial control systems, semiconductors, and higher levels of math and physics.</i>			
Fall	<input type="checkbox"/> EET 251	Digital Electronics 1: Programmable Logic Devices	5
Fall	<input type="checkbox"/> EET 221	Semiconductor Devices and Circuits	5
Fall	<input type="checkbox"/> PE 182H	Adult Fitness	1
Fall	<input type="checkbox"/> RET Elective	RET Elective	4
Fall	<input type="checkbox"/> Gen. Ed. Elective	General Education Elective	4
Winter	<input type="checkbox"/> EET 252	Digital Electronics 2: Programmable Logic Devices	5
Winter	<input type="checkbox"/> EET 222	Operational Amplifier Circuits	5
Winter	<input type="checkbox"/> EET219	Programmable Logic Controllers	3
Winter	<input type="checkbox"/> RET Computer Elective	Suggested course: CAS 170 Beginning Excel	3
Spring	<input type="checkbox"/> EET 273	Electronic Control Systems	3
Spring	<input type="checkbox"/> Gen. Ed. Elective	General Education: Arts & Letters Elective	3
Spring	<input type="checkbox"/> RET 223	Power Generation	5
Spring	<input type="checkbox"/> EET 242	Microcontroller Systems	5

General Education Requirements:

- **Arts and Letters:** Art, Literature, Spanish, Philosophy, Speech, Women's Studies (101), Writing (WR 240-247)
- **Social Sciences:** Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies
- **Science and Math:** Biology, Chemistry, Environmental Science, General Science, Geology, Math (111 or higher)

The 16 credits must include at least one course with a minimum of 3 credits from each category of the General Education categories. No more than two courses may come from courses required by specific programs.

RET Approved Electives:

ART 231	Drawing	MTH 112	Elementary Functions
BA 101	Introduction to Business	MTH 243	Statistics I
BA 203	Introduction to International Business	MTH 251	Calculus I
BA 206	Management Fundamentals	SPA 101	First Year Spanish
BA 224	Introduction to Human Resource Management	SPA 102	First Year Spanish
BA 226	Business Law I	SPA 103	First Year Spanish
CH 121	General Chemistry I	SPA 201	Second Year Spanish
CH 122	General Chemistry II	SPA 202	Second Year Spanish
CH 123	General Chemistry III	SPA 203	Second Year Spanish
EMS 105	EMT Part I	WLD 190	Basic Welding
EMS 120	Emergency Medical Services: First Responder	WR 227	Technical Writing
JPN 101	First Year Japanese		
JPN 102	First Year Japanese		Any Environmental Studies (ESR) course
JPN 103	First Year Japanese		Any Geology (G) course
JPN 201	Second Year Japanese		Any General Science (GS) course
JPN 202	Second Year Japanese		
JPN 203	Second Year Japanese		RET Computer Electives: Any CAS, CIS or CS course

Application & Acceptance:

This program begins in the fall term only. This is a limited-entry program with space for 32 students with 10 students on an alternate list. A maximum of eight seats will be reserved for transfer students. Applications for the program are accepted on a first-come/first-serve basis in mid-June. Students must meet all program prerequisites with a grade of "C" or better. The required program prerequisites include: MTH 95, WR 115, RD 115, and CAS 133.

OIT Transfer Information:

Students interested in transferring to Oregon Institute of Technology (OIT) may start their studies at Columbia Gorge Community College (CGCC). Upon completion of their AAS degree in RET, student can transfer to OIT and in two more years complete the BDS degree in Electronics Engineering Technology. Students interested in this option are recommended to meet with a CGCC academic advisor and an OIT advisor after their first year of study at CGCC.

Comprehensive Degree Requirements & Limitations:

- All candidates must earn a minimum of 90 credits which count toward an associate degree.
- Credit courses numbered below 100 cannot be used to fulfill the 90 credit minimum requirement for any degrees.
- All candidates for a degree must have at least a 2.0 minimum cumulative grade point average ("C" average).
- All degree candidates must accumulate at least 30 credits of satisfactory work at CGCC to establish residency. Nontraditional credit, credit transferred from another institution or challenge credit may not be used to establish residency. 24 of the credits earned at CGCC must apply to the specific associate degree requirements the student is pursuing.
- Transfer credits accepted for letter grade C- or better. Transfer grades of "pass" accepted if no letter grade required
- A maximum of 3 credits of physical education (PE) courses may be used as electives.
- Credit courses with passing grades may only be applied once in meeting a degree or certificate requirement (unless approved to be repeated). In addition, repeated courses are only counted once in accumulated hour and point totals.
- No more than 12 credits of Cooperative Education courses may be used.
- No more than 9 credits of experimental courses can be used (course numbers 199-199Z and 299-299Z).
- A maximum of 24 credits of "P" (pass) grades will apply to degree.
- No MSD workshops will apply.

This form is intended for advising purposes only. See your declared catalog for a complete list of degree requirements.

Columbia Gorge Community College is an equal opportunity educator and employer.