



ELECTRO-MECHANICAL TECHNOLOGY (EM-TECH)

Associate of Applied Science Degree

(99 Quarter Credits)

2020-2021

Prerequisites:

- MTH 65 Beginning Algebra II (4 credits) completed with a "B" or better, or equivalent placement test scores
- WR 115 Introduction to Expository Writing (4 credits) or equivalent placement test scores
- RD 115 Critical Reading (4 credits) or equivalent placement test scores

Course Number	Course Title	Prerequisites	Credits
Fall Term			16
<input type="checkbox"/> EET 111	DC Circuits	MTH 65 (with "B" or better), WR 115, RD 115 or higher or test	5
<input type="checkbox"/> MEC 123	Industrial Mechanical Systems	RD 115, WR 115, MTH 20 or test	5
<input type="checkbox"/> MTH 110 or higher	Technical Math (or higher)	MTH 65 or test. Rec: concurrent enrollment in EET 111.	4
<input type="checkbox"/> SAF 188	Industrial Safety and OSHA 10	none	2
Winter Term			18
<input type="checkbox"/> CG 209	Job Finding Skills	none	1
<input type="checkbox"/> EET 112	AC Circuits	EET 111	5
<input type="checkbox"/> EET 170	Embedded Computing	WR 115, MTH 65 or higher; RD 115; or test	3
<input type="checkbox"/> MEC 120	Fluid Power & Electrical Control of Fluid Power Systems	MTH 65 or test	5
<input type="checkbox"/> WR 121	English Composition	WR 115, RD 115 or test	4
Spring Term			17
<input type="checkbox"/> EET 113	AC Power	EET 112 or dept approval	5
<input type="checkbox"/> EET 141	Motor Control	EET 112	5
<input type="checkbox"/> MEC 124	Mechatronics	none	3
<input type="checkbox"/>	General Education Elective (Science)	MTH 20 or test. Pre/con: WR 121	4
Fall Term			19
<input type="checkbox"/> EET 221	Semiconductor Devices and Circuits	EET 113	5
<input type="checkbox"/> EET 251	Digital Electronics 1: Programmable Logic Devices	EET 113	5
<input type="checkbox"/> RET 223	Power Generation	WR 121	5
<input type="checkbox"/>	General Education Elective (Arts & Letters)	MTH 20 or test. Pre/con: WR 121	4
Winter Term			17
<input type="checkbox"/> EET 219	Programmable Logic Controllers	EET 251	3
<input type="checkbox"/> EET 222	Operational Amplifier Circuits	EET 221	5

<input type="checkbox"/> EET 252	Digital Electronics 2: Programmable Logic Devices	EET 251	5
<input type="checkbox"/>	General Education Elective (Social Science)	MTH 20 or test. Pre/con: WR 121	4
Spring Term			12
<input type="checkbox"/> EET 242	Microcontroller Systems	EET 252, EET 222	5
<input type="checkbox"/> EET 273	Electronic Control Systems	EET 222	3
<input type="checkbox"/>	General Education Elective	MTH 20 or test. Pre/con: WR 121	4

General Education Requirements

Students must earn a minimum of 16 credits of General Education taken from the list of approved courses. They must include at least one course with a minimum of 3 credits from each of the following categories.

- **Arts and Letters:** Art*, Communication, English Literature, Language, Music*, Philosophy, Theater*, Writing*
- **Social Sciences:** Anthropology, Economics, History, Political Science, Psychology, Sociology, Women's Studies
- **Science and Math:** Biology, Chemistry, Environmental Science, General Science, Geology, Math*

*See list of General Education Electives in current Catalog, as not all courses within discipline will meet requirement.

Career Description and Course of Study

The Associate of Applied Science degree prepares students for employment as technicians in a broad range of industries: wind, solar, hydropower, avionics manufacturing, food and beverage manufacturing, engineering, and others. The degree provides a basic level of knowledge and skills in programmable logic controllers, industrial control systems, semiconductors, and higher levels of math.

Transfer Information

Students interested in transferring to Oregon Institute of Technology (OIT) or Embry Riddle Aeronautical University may start their studies at Columbia Gorge Community College (CGCC). Upon completion of their AAS degree in EM-Tech, students can transfer to one of these partner universities and complete a degree in a related engineering field. Students interested in this option are recommended to meet with a CGCC academic advisor and an advisor from their planned transfer institution within their first year of study at CGCC.

More information on webpage: <https://www.cgcc.edu/academics/transfer-college-information>

Comprehensive Degree Requirements

- 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 Management/Supervisory Development 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.