



ELECTRO-MECHANICAL TECHNOLOGY (EM-TECH)

CERTIFICATE

(43 Quarter Credits)

2020-2021

Prerequisites:

- MTH 65 Intermediate Algebra (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
First Term			16
<input type="checkbox"/> EET 111	DC Circuits	MTH 65 (with “B” or better), WR 115, RD 115 or test	5
<input type="checkbox"/> MEC 123	Industrial Mechanical Systems	RD 115, WR 115, MTH 20 or test	5
<input type="checkbox"/> SAF 188	Industrial Safety and OSHA 10	none	2
<input type="checkbox"/> WR 121	English Composition	WR 115, RD 115 or test	4
Second Term			14
<input type="checkbox"/> EET 112	AC Circuits	EET 111	5
<input type="checkbox"/> EET 170	Embedded Computing	WR 115, RD115, and MTH 65 or test	3
<input type="checkbox"/> MEC 120	Fluid Power & Electrical Control of Fluid Power Systems	MTH 65	5
<input type="checkbox"/> CG 209	Job Finding Skills	none	1
Third Term			13
<input type="checkbox"/> EET 113	AC Power	EET 112	5
<input type="checkbox"/> EET 141	Electrical Motors/Generator Control	EET 112	5
<input type="checkbox"/> MEC 124	Mechatronic Systems in Advanced Manufacturing	WR 115, RD115, and MTH 65 or test	3
Total Quarter Credits			43

Career Description and Course of Study

This program prepares students for employment in electro-mechanical technology fields. This industry seeks employees with skills in electrical engineering, electronics, mechanics, and motor controls. The Electro-Mechanical Technology career pathway certificate is fully contained in the Associate of Applied Science: Electro-Mechanical Technology degree, and, as such, all coursework in the certificate may be applied to completion of the AAS degree. Dual-credit alignment exists at Hood River Valley High School for MEC 123.

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 Certificate Requirements & Limitations:

- All candidates for a certificate must have at least a 2.0 minimum cumulative grade point average ("C" average).
- Credit courses, numbered below 100 cannot be used to fulfill the credit minimum requirements for certificates.
- At least 12 credits must be earned at CGCC, nine of which must apply to the certificate requirements. The final nine credits must be earned at CGCC.
- A maximum of 12 credits of "P" (pass) grades will apply to any one-year certificate. Some certificate requirements may vary and will be listed in that specific certificate.
- No more than 12 credits of Cooperative Education courses may apply to any one-year certificate.
- Only nine credits of 199 and 299 experimental courses 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.