



ELECTRO-MECHANICAL TECHNOLOGY (EM-TECH)

CERTIFICATE

(42 Quarter Credits)

2022-2023

Program Prerequisites:

- MTH 65 Beginning Algebra II (4 credits) completed with a “B” or better, or equivalent placement
- IRW 115 Critical Reading and Writing (5 credits) or WR 115 Introduction to Expository Writing (4 credits) or equivalent placement

Coursework:

Course Number	Course Title	Prereqs	Credits
First Term			15
EET 111	Electrical Circuit Analysis 1	MTH 65 (with “B” or better), IRW 115 or WR 115, or place	5
MEC 123	Industrial Mechanical Systems	IRW 115 or WR 115 or place; place into MTH 65 or MTH 98	5
SAF 188	Industrial Safety and OSHA 10	none	1
WR 121	English Composition	IRW 115 or WR 115 or place	4
Second Term			14
EET 112	Electrical Circuit Analysis 2	EET 111	5
EET 180	Industrial Computing	MTH 65 or place	3
MEC 120	Hydraulics and Pneumatics	MTH 65 or place	5
CG 209	Job Finding Skills	none	1
Third Term			13
EET 113	Electrical Circuit Analysis 3	EET 112 or dept approval	5
EET 141	Motor Control	EET 112	5
MEC 124	Mechatronic Systems in Advanced Manufacturing	IRW 115 or WR 115, MTH 65, or place	3
Total Quarter Credits			42

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.