Oregon TECH
Oregon Institute of Technology

Columbia Gorge Community College
Associate of Applied Science in Electro-Mechanical Technology to
Oregon Institute of Technology
Bachelor of Science in Electronics Engineering Technology

Articulation Agreement
2024 - 2025 Catalog

It is agreed that students transferring with Columbia Gorge Community College's (CGCC) Associate of Applied Science in Electro-Mechanical Technology to Oregon Institute of Technology's (Oregon Tech) Bachelor of Science in Electronics Engineering Technology (BEET) program will be given full credit for all selected courses listed below. This agreement is based on the evaluation of the rigor and content of the general education and technical courses at both CGCC and Oregon Tech and is subject to a yearly reevaluation by both schools for continuance. This agreement is October 22nd, 2024.

Bachelor degree-seeking students must complete a minimum of 60 credits of upper-division work before a degree will be awarded. Upper-division is defined as 300-and 400-level classes at a bachelor's degree granting institution. Bachelor degree-seeking students that transfer to Oregon Tech with 300-400 level transferable courses must complete at least 45 additional credits with Oregon Tech before a degree will be awarded.

Admission to Oregon Tech is not guaranteed. Students must apply for admission to Oregon Tech in accordance with the then-existing rules, policies and procedures of Oregon Tech. Students are responsible for notifying the Oregon Tech Admissions and Registrar's Office when operating under an articulation agreement to ensure their credits transfer as outlined in this agreement. To utilize this agreement students must be attending CGCC during the above catalog year. Students must enroll at Oregon Tech within three years of this approval.

Columbia Gorge Community College

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Jim Pytel, Department Chair
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Wendy Ivie,
University Registrar

Columbia Gorge Community College Degree Courses & Oregon Tech Equivalent Credits

Columbia Gorge Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
EET 219 - Programmable Logic Controllers EET 231 - Semiconductor Devices and Circuits 2 EET 273 – Industrial Control RET 223 - Power Generation	3 5 5 5	200-Level Technical Electives	17
CG 209 - Job Finding Skills	1	Elective	--
EET 111 - Electrical Circuit Analysis 1 EET 112 - Electrical Circuit Analysis 2 EET 113 - Electrical Circuit Analysis 3 Must take all three	15	EE 121 - Electric Circuits I EE 123 - Electric Circuits II	8
EET 141 - Motor Control	5	Elective	--
EET 180 - Industrial Computing	3	Elective	2
EET 221 - Semiconductor Devices and Circuits 1	5	EE 219 - Semiconductor Devices and Amplifiers	4
EET 251 - Digital Electronics 1: Programmable Logic Devices EET 252 - Digital Electronics 2: Programmable Logic Devices Must take both	10	EE 131 - Digital Electronics I EE 133 - Digital Electronics II	8
General Education Electives [1] Humanities Electives [2] Social Science Electives [3]	 6 9	 Humanities Electives [2] Social Science Electives [3]	 6 9
MEC 120 - Hydraulics and Pneumatics	5	Elective	--
MEC 123 - Industrial Mechanical Systems	5	Elective	--
MEC 124 - Mechatronic Systems in Advanced Manufacturing	3	Elective	--
MTH 110 – Technical Math	4	Lower Division Math	--
SAF 188 - Industrial Safety and OSHA 10	2	Elective	--
WR 121Z – Composition I	4	WRI 121Z – Composition I	4
UAS 101 - Introduction to Unmanned Aircraft Systems	5		-
Total CGCC Degree Credits [1]	100	Total Oregon Tech Degree Credits	58

Courses not required for Columbia Gorge Community College's AAS in Electro-Mechanical Technology but are required for Oregon Tech's BS in Electronics Engineering Technology and can be taken at CGCC or Oregon Tech.

Columbia Gorge Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
COMM 111Z - Public Speaking	4	COM 111Z - Public Speaking	4
COMM 215 - Small Group Communication: Process and Theory	4	SPE 321 - Small Group and Team Communication [4]	3
MTH 111Z – Precalculus I: Functions	4	MATH 111Z - Precalculus I: Functions	4
MTH 112Z - Precalculus II: Trigonometry	4	MATH 112Z - Precalculus II: Trigonometry	4
STAT 243Z- Elementary Statistics I & STAT 244 – Elementary Statistics II	4 5	MATH 361 – Statistical Methods	4
MTH 251 - Calculus I	5	MATH 251 - Differential Calculus	4
MTH 252 - Calculus II	5	MATH 252 - Integral Calculus	4
WR 122Z – Composition II OR WR 227Z - Technical Writing	4	WR 122Z – Composition II OR WRI 227Z - Technical Writing	4
Additional CGCC Degree Credits	39	Additional Oregon Tech Degree Credits	31
Total CGCC Degree Credits	139	Total Oregon Tech Degree Credits	89

In addition to the above courses, the courses listed below are also required for the BS in Electronics Engineering Technology and should be completed at Oregon Tech.

Oregon Institute of Technology Course Number & Title	Qtr. Units
CST 116 - C++ Programming I	4
EE 320 - Advanced Circuits and Systems Analysis	5
EE 321 - Electronics I	5
EE 323 - Electronics II	5
EE 325 - Electronics III	5
EE 331 – Digital System Design w/HDL	4
EE 333 - Introduction to Microcontrollers	4
EE 335 - Advanced Microcontrollers	4
EE 401 - Communication Systems	5
EE 430 - Linear Systems and Digital Signal Processing	5
EE 432 - Advanced Digital System Design	4

Engineering Elective (Upper Division)	4
ENGR 267 - Engineering Programming	3
ENGR 265 - Capstone Project	6
MATH 321 - Applied Differential Equations I	4
MGT 345 - Engineering Economy	3
Humanities Credit (Upper Division)	3
Social Science (Upper Division)	3
PHY 201 - General Physics	4
PHY 202 - General Physics	4
PHY 203 - General Physics	4
Upper Division Writing Elective - choose one: WRI 327 - Advanced Technical Writing WRI 350 - Documentation Development WRI 410 - Proposal and Grant Writing	3
Additional Oregon Tech Credits [5]	91
Total Oregon Tech Degree Credits [6]	180

1. To maximize useable credits toward the BEET, the listed course is recommended.

2. Students can transfer up to nine (9) credit hours of Humanities electives into the BEET; these courses should be designated as Humanities electives by Oregon Tech. However, only three (3) humanities credits can be studio/performance based. Choose from the following CGCC prefixes: ART, ENG, MUS, PHL, TA, or Languages (second year/200-level only).

3. Students can transfer up to twelve (12) credit hours of Social Science electives into the BEET; these courses should be designated as Social Science elective by Oregon Tech. Choose from the following CGCC prefixes: ATH, EC, HST, PS, PSY, or SOC.

4. Does not count toward the 60 upper-division credit requirement.

5. Baccalaureate students must complete a minimum of 60 credits of upper-division work before a degree will be awarded. Upper-division is defined as 300- and 400- level classes at a bachelor's degree granting institution.

6. Oregon Tech's BEET requires 180 credits.