

Transfer Guide

Clackamas Community College
 Electronics Engineering Technology
 to
 Oregon Institute of Technology
 Bachelor of Science in Electronics Engineering Technology

Courses Required for Clackamas CC’s Electronics Engineering Technology for Oregon Tech’s Electronics Engineering Technology Degree to be taken at Clackamas CC

Clackamas CC Course Number and Title	Qtr. Units	Oregon Tech Course Number and Title	Qtr. Units
Human relations elective. PSY 101 or BA 285 recommended. See page 82 of catalog for list of approved related instruction courses.	3	Social Science Elective	3
MTH 111 College Algebra	5	MATH 111 College Algebra	4
MTH 112 Trigonometry/Pre-Calculus	5	MATH 112 Trigonometry	4
WRI 121 English Composition	4	WRI 121 English Composition	3
EET 137 Electrical Fundamentals I	4	EE 121 Fund. of Electric Circuits I	4
EET 141 Electrical Fundamentals II	4	EE 123 Fund. of Electric Circuits II	4
EET 142 Electrical Fundamentals III	4		
EET 157 (3) Digital Logic I	3	EE 131 Digital Electronics I	4
EET 257 (3) Digital Logic II	3	EE 133 Digital Electronics II	4
EET 127 – Semiconductor Circuits I	2	EE 219 Intro. to Semiconductor Devices and Amplifiers	4
EET 227 – Semiconductor Circuits II	3	Elective	2
EET 250 Linear Circuits	3		
EET 254 Introduction to microcontrollers	3		
EET 112 Electronics Equipment and Assembly I	1		
EET 113 Electronics Equipment and Assembly II	1		
EET 114 Electronics Equipment and Assembly III	1	Electronics 200-level Technical Electives	16
EET 139 Principles of Troubleshooting I	2		
EET 239 Principles of Troubleshooting II	2		
EET 215 Technical Mechanics	3		
EET 225 Mechatronics I	2		
EET 235 Mechatronics II	2		
EET 233 PLCs I	3		
EET 234 PLC II	3		
SM 150 Semiconductor Processing I	2		
SM-280 Electronics/microelectronics corporate work experience	4		

HD209 – Job skills	1	General Elective (Does not count towards BSEET degree)	
MFG 107 Industrial Safety & First Aid	3		
MFG 209 Program. & Automation for MFG	3		
IMT 223 Instrumentations and Controls	3		
IMT 220 Industrial Machinery I	3		
CDT Computer aided drafting (Choose between CDT 103, CDT 108A, CDT 223)	3		
Clackamas CC Elective: Students must also take three elective courses of at least three credits each. The following courses satisfy these elective requirements and are selected for best transferability.			
PHY 211 General Physics I w/Calculus	5	PHY 221 General Physics I w/Calculus	4
PHY 212 General Physics II w/Calculus	5	PHY 222 General Physics II w/Calculus	4
PHY 213 General Physics III w/Calculus	5	PHY 223 General Physics III w/Calculus	4
MATH 251 Calculus I	5	MATH 251 Differential Calculus	4
MATH 252 Calculus II	5	MATH 252 Integral Calculus	4
CS 161 Computer Science I	4	CST 116 C++ Programming I	4
WRI 227 Technical Writing	4	WRI 227 Technical Report Writing	3

Additional Courses required for Oregon Tech’s Bachelor of Science in Electronics Engineering Technology and can be taken at either Clackamas or Oregon Tech.

Clackamas CC Course Number and Title	Qtr. Units	Oregon Tech Course Number and Title	Qtr. Units
Arts & Letters/Humanities elective ¹	9	Humanities elective	9
Social Science elective ²	9	Social Science elective	9
MTH 243 Statistics I	4	MATH 243 Introductory Statistics	4
MTH 254 Vector Calculus	5	MATH 254N Vector Calculus I	4
MTH 256 Differential Equations ³	4	MATH 321 Applied Differential Equations I ³	4
COMM 111 Public Speaking	4	SPE 111 Public Speaking	3
COMM 219 Small Group Communications ³	4	SPE 321 Small Group and Team Communication ³	3
WRI 122 English Composition	4	WRI 122 Argumentative Writing	3

In addition to the above courses, the courses listed below are also required for the Bachelor of Science in Electronics Engineering Technology and are offered only by Oregon Tech.

Oregon Institute of Technology Course Number & Title	Qtr. Units
Engineering Technical Elective	9
EE 320 Advanced Circuit 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 Microcontroller Engineering	4
EE 335 Advanced Microcontroller Engineering	4
EE 401 Communication Systems	5
EE 430 Linear Systems and Digital Signal Processing	5
EE 432 Advanced Digital System Design w/HDL	4
ENGR 267 Engineering Programming	3
ENGR 465 Capstone Project	6
MGT 345 Engineering Economy	3
Writing Elective, choose from: WRI 327 Advanced Technical Writing WRI 350 Documentation Development WRI 410 Proposal and Grant Writing	3
Additional Oregon Tech Credits ⁴	70
Total Degree Credits ⁵	188

1. Students must take nine credits of Humanities Electives. However, only 3 humanities credits can be studio/performance based Choose from ART, ENG, FA, MUS, PHL, R, or Second Year Foreign Language, prefixes or other courses designated as Humanities Electives by the Oregon Tech Registrar's Office.
2. Twelve credits of lower division Social Science Electives are required. Choose from ANTH, ECON, HST, PS, PSY, and SOC prefixes or other courses designated as Social Science Electives by the Oregon Tech Registrar's Office.
3. Does not count toward 60 upper-division credit requirement.
4. 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 and 45 credits must be from Oregon Tech.
5. Oregon Tech's Bachelor of Science in Electronics Engineering Technology requires 188 total credits.

For more information:

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