

ELECTRONICS ENGINEERING TECHNOLOGY, CERTIFICATE

Program Code: CC.ELECTRONENGTECH

Program course work focuses on a traditional electronics foundation, including a basic electronics series, digital logic series, a troubleshooting series, a physics series and a semiconductor linear circuit series. The degree focuses on electronics and engineering design principles and electronics systems and is taught in a team environment whenever possible.

Specific skill areas for the Electronics Engineering Technology degree include test equipment use, computer use, problem-solving, teamwork, understanding math and electronics fundamentals and writing and oral communication.

Oregon Tech Transfer Courses

The Industrial Technology Department, in partnership with Oregon Tech, offers a number of transferable classes into Oregon Tech's Electronics Engineering Technology degree program.

For information contact the Industrial Technology Department, 503-594-3318.

Outcomes

Related Instruction Outcomes

Computation

- 1 course - **MTH-111** College Algebra
- Use appropriate mathematics to solve problems.

Communication

- 1 course - **WR-121** English Composition
- Read actively, think critically, and write purposefully and capably for professional audiences.

Human Relations

- 3 credits - Recommended: **PSY-101** Human Relations
- Engage in ethical communication processes that accomplish goals.

Program Outcomes

Upon successful completion of this program, students should be able to:

- communicate critical information about electronic systems using verbal, written, or graphical means;
- troubleshoot electronic systems;
- analyze basic electronic systems;
- install or build electronic and electromechanical systems;
- use proper electrical test equipment to test and maintain electronic and electrical components and equipment;
- demonstrate safe work habits around electricity and electronic equipment.

Requirements

Course	Title	Credits
First Term		
EET-112	Electronic Equipment and Assembly I	1
EET-137	Electrical Fundamentals I	4
EET-139	Principles of Troubleshooting I	2
EET-157	Digital Logic I	3
SM-150	Semiconductor Processing I	2
WR-121	English Composition	4
Credits		16
Second Term		
EET-113	Electronic Equipment and Assembly II	1
EET-141	Electrical Fundamentals II	4
EET-257	Digital Logic II	3
IMT-120	Industrial Machinery I	3
MTH-111	College Algebra	5
Credits		16
Third Term		
EET-114	Electronic Equipment and Assembly III	1
EET-142	Electrical Fundamentals III	4
EET-254	Introduction to Microcontrollers	3
IMT-223	Instrumentation & Controls	3
SM-280	Electronics & Microelectronics/CWE	2
Human Relations requirement		3
PSY-101	Human Relations (Recommended)	
Credits		16
Total Credits		48

Careers

Career opportunities include:

- engineering technician
- manufacturing equipment technician
- field services technician
- operators and processors with large and small employers in high-tech industries