

Electronics Technician

Certificate of Completion

2009-10 Academic Year

Major Code: 150303B

About the Program

The Electronics Technician one-year certificate program is designed for students seeking entry-level electronics technician positions in manufacturing or service industries. The program emphasizes theory fundamentals, practical troubleshooting, and basic electronics design as well as general studies courses. Technical courses involve extensive lab work using industry standard test equipment and practices.

This program will help students gain skills for entry into one of today's most dynamic and broad-based technical fields. Typical occupations include those of field engineers in business or communications fields, or line/maintenance technicians at manufacturing sites. Electronics training also provides excellent positioning for lateral movement into areas such as technical sales or technical writing.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any pre-requisites listed. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Electronics Technology Department head's recommendation. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services Office and the Electronics Technology Department.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
—	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) ¹	0-4
MTH20	Pre-algebra I (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR30	Fundamentals of Composition II (or designated placement test score as shown on current indicator chart)	4

Required Courses

Course No.	Course Title	Credits
First Term		
EET112	Introduction to Mechatronics	5
EET125	Electronics Fundamentals I (DC) ²	6
MTH63	Applied Technical Math or	
MTH60	Fundamentals of Algebra I or higher level math	4
9.167	Emergency First Aid or approved health elective (see RCC catalog for approved list of electives)	1-3
—	Approved program elective	2
		19-21

Course No.	Course Title	Credits
Second Term		
EET126	Electronics Fundamentals II (AC) ³	6
EET130	Digital Fundamentals I	5
MTH65	Fundamentals of Algebra II or program elective if MTH65 requirement met	4-6
WR115	Introduction to Expository Writing or	
WR121	English Composition I	3-4
		18-21

Third Term

EET131	Digital Fundamentals II	5
EET140	Solid State Fundamentals	6
PSY101	Psychology of Human Relations or	
BT101	Human Relations in Organizations	3
—	Approved program electives	4
		18

TOTAL PROGRAM CREDITS

55-60

Approved Program Electives (7-13 credits required)

Course No.	Course Title	Credits
BT121	Introduction to e-Commerce	3
—	Any computer science applications course	3-4
CS133b	Visual Basic I	4
CS140	Introduction to Operating Systems	4
EET101	Introduction to Electronics	3
EET102	Industrial Electronics for Manufacturing	5
EET103	Electronics Drafting	3
EET105	Electromechanical Systems	3
EET106	Electronic Assembly	3
EET118	Introduction to Renewable Energy Systems	3
EET180	Cooperative Work Experience/Engineering or	
EET280	Cooperative Work Experience/Engineering or	
EET250	Prototype Development and Documentation	4
EET180S	Cooperative Work Experience Seminar/Engineering	1
EET280S	Cooperative Work Experience Seminar/Engineering	1
EET199	Selected Topics in Technology	1-6
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	6
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	6
EET240	Computer Software/Hardware Architecture I	5
EET265	Optoelectronics: Fiberoptics and Lasers	4
GS104	Physical Science	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (Solid Works)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG230	Statistics and Quality Control	3
MTH95	Intermediate Algebra	4
WR227	Technical Writing	4

¹ Required for graduation. Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

² Can also be taken in a modularized format as EET125A and EET125B.

³ Can also be taken in a modularized format as EET126A and EET126B.

For more information contact the Electronics Technology Department:

Grants Pass or Medford (541) 245-7894

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This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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