

Electronics Technician

Holland code family: Doers

About the Program

The Electronics Technician four-term 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit www.roguecc.edu/GainfulEmployment.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by the results of their placement assessment. 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 chair'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 chair 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 the equivalent of a "C" or better grade.

What skills will you learn?

Visit <http://go.roguecc.edu/department/program-learning-outcomes>.

What are the employment opportunities?

Visit <http://www.roguecc.edu/GainfulEmployment>.

Prerequisites

Course No.	Course Title	Credits
CS__	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	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

Total Prerequisite Credits 0-16

Required Courses

Course No.	Course Title	Credits
First Term		
EET125	Electronics Fundamentals I (DC)	6
EET129	Introduction to Embedded Systems	5
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4 15
Second Term		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6 12



Third Term

EET131	Digital Fundamentals II	6
HE112	Emergency First Aid or approved health elective (see catalog for approved list of electives)	1-3
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
—	Approved program elective(s)	2-3 12-16

Fourth Term

EET140	Solid State Fundamentals	6
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
—	Approved program elective(s)	3-5 12-14

TOTAL PROGRAM CREDITS

51-57

Approved Program Electives

(one or more courses totaling 5-8 credits required)

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	4
CS	Any computer science course, CS125 or above	3-4
EET101	Introduction to Electronics	3
EET104	Introduction to Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET127	Exploring the Raspberry Pi	3
EET132	Digital Fundamentals III	5
EET180	Cooperative Work Experience/Electronics	4
EET180S	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	Microcontrollers I	5
GS104	Physical Science with lab	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
MTH65	Fundamentals of Algebra II or higher level math	4
WLD101	Welding Fundamentals	3
WR121	English Composition I (if not taken as a required course)	4
WR227	Technical Writing	4

¹ Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

For more information contact the Electronics Technology Department:

Grants Pass or Medford 541-245-7809
Toll free in Oregon 800-411-6508, Ext. 7809
email electronics@rogucecc.edu
Web address www.rogucecc.edu/electronics
TTY Oregon Telecom Relay Service, 711

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

RCC is an open institution and does not discriminate. For RCC's non-discrimination policy and a full list of regulatory specific contact persons visit the following webpage: www.rogucecc.edu/nondiscrimination.

