

High Technology Studies: Plant Systems Technician Career Pathways Certificate

Holland code family: Creators

www.roguecc.edu/Counseling/HollandCodes/test

About the Program

This three-term pathway sequence of coursework will ensure students a foundational level of skills that may provide a competitive advantage when being considered for hire in a variety of commercial plant environments. With these foundational skills to build on, students are potential candidates for sponsorship by their employers into one of many Bureau of Labor and Industry (BOLI) apprenticeship programs. RCC is not authorized to sponsor entrance into any apprenticeship program, but apprenticeship coursework is provided by the college.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for electronics technology programs are:

- Identify and solve real-world problems through the application of electronics theory and concepts.
- Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.
- Organize, interpret, and use technical information and documentation.
- Communicate effectively across a variety of audiences: technicians, engineers, management and customers.
- Function collaboratively as a member of a team to achieve specified and measurable results.
- Demonstrate flexibility, adaptability, and time management skills commensurate with industry productivity needs.
- Demonstrate the ability to adhere to personal and industry safety standards.
- Demonstrate life-long learning towards professional growth.
- Negotiate and abide by the terms of agreement that define their employment.

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 through the Placement Process. 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.



<p>High Technology Studies credits could lead to Associate of Applied Science degrees in the following fields:</p> <ul style="list-style-type: none"> • Industrial Welding Technology (92-97 credits) • Manufacturing/Engineering Technology (97-108 credits) • Electronics Technology (98-104 credits) • Diesel Technology (95-97 credits) 	<p>RCC Pre-apprenticeship Introduces students with employer sponsorship to skills needed in the following trades:</p> <ul style="list-style-type: none"> • Construction • Electrician • Industrial mechanics and maintenance 	<p>Credits could lead to Associate of Science degrees transferrable to Oregon Tech (OT):</p> <ul style="list-style-type: none"> • Manufacturing/Engineering Technology (105-108 credits) • Computer and Embedded systems Engineering (108 credits)
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¹ For current wage and gainful employment data, see the Jobs & Wages box within the specific program road-map at www.roguecc.edu/CareerPathways/

High Technology Studies: Plant Systems Technician – Career Pathways Certificate (41 credits)

- Entry-level industrial machinery mechanic ¹
- Entry-level maintenance worker, machinery ¹
- Entry-level mechanical door repairer ¹
- Entry-level maintenance and repair worker, general ¹
- Entry-level assembler and fabricator ¹

High Technology Studies – Certificate of Completion (50-52 credits)

- Industrial machinery mechanic ¹
- Maintenance worker, machinery ¹
- Mechanical door repairer ¹
- Maintenance and repair worker, general ¹
- Assembler and fabricator ¹

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.

Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented proficiency within the past ten years.	0-4
MTH20	Pre-algebra 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 Core Courses

Course No.	Course Title	Credits
First Term		
EET104	Introduction to Manufacturing Electronics	4
MET105	Blueprint Reading – Mechanical	3
MFG101	Introduction to Manufacturing	3
MFG140	CNC Controls	2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	$\frac{4}{16}$
Second Term		
EET112	Introduction to Mechatronics	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I	$\frac{6}{13}$
Third Term		
MEC130	Hydraulics I	3
MFG122	Manufacturing Processes II	4
WLD250C	Selected Topics: SMAW	2
WR115	Introduction to Expository Writing 1	$\frac{3}{12}$
TOTAL PROGRAM CREDITS		41

¹ BT113 Business English I, 4 credits, may be taken in lieu of WR115 Introduction to Expository Writing.

For more information contact the Electronics Technology Department:

Grants Pass or Medford 541-245-7809

Toll free in Oregon
800-411-6508, Ext. 7809

emailelectronics@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.

