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.

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.

High Technology Studies: Plant Systems Technician — Career Pathways Certificate (44 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]

High Technology Studies credits could lead to Associate of Applied Science degrees in the following fields:

- Welding (93-97 credits)
- Manufacturing/ engineering (97-108 credits
- Electronics (103-108 credits)
- Diesel (105-107 credits)

RCC Pre-apprenticeship Introduces students with employer sponsorship to skills needed in the following trades:

- Construction
- Electrician
- Industrial mechanics and maintenance

Credits could lead to Associate of Science degrees transferrable to Oregon Tech (OT):

- Manufacturing/ engineering (105-108 credits)
- Computer and Embedded systems Engineering (108 credits)

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at www.roguecc.edu/CareerPathways/

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 proficiency [1]	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	4
		16
Second Term		
EET112	Introduction to Mechatronics	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I	6
		13
Third Term		
MEC130	Hydraulics I	3
MFG122	Manufacturing Processes II	4

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WLD250C	Selected Topics: SMAW	2
WR115	Introduction to Expository Writing [2]	3
		12

TOTAL PROGRAM CREDITS **41**

[1] 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.

[2] 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
email . . . . . .electronics@roguecc.edu
Web address . . . . . www.roguecc.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.roguecc.edu/nondiscrimination.

RCC
Rogue Community College