

Mechatronics: Maintenance Technician

Holland code family: Doers

About the Program

Today's manufacturing industry uses robots and other advanced fabrication and assembly equipment to produce a wide variety of products. All of these systems rely on digital controls including programmable logic controllers. Mechatronics technicians calibrate, troubleshoot, and repair both the manufacturing equipment and the controllers. Mechatronic technicians in southern Oregon are needed by manufacturers in the food processing, wood products, and metal fabrication industries.

The one- to two-term Mechatronics Maintenance Technician Career Pathways Certificate prepares students for entry-level positions in today's fast-paced manufacturing environment. A typical position for graduates of the program is production maintenance helper. Completion of the program begins initial courses of the Mechatronics AAS degree.

Foundational skills in math, technical writing, safety, workplace survival, and workplace expectations are combined with welding, hydraulics, and other applied courses. Most of the courses in the program are hands-on, open-lab courses supported by online instruction providing students exceptional flexibility when working around family, employment, or other commitments.

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 registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at www.roguecc.edu/Programs/CareerPathways.



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 computer proficiency ¹	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied 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

0-19

Approved Program Electives

(choose a minimum of 12 credits from the list)

Course No.	Course Title	Credits
EET104	Fundamentals of Manufacturing Electronics	4
EET129	Introduction to Embedded Systems	5
MET101	Mechanical Drafting	3
MET105	Blueprint Reading – Mechanical	3
WLD111	Technology of Industrial Welding or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6

TOTAL PROGRAM CREDITS

12-21

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

For more information contact the Manufacturing and Engineering Technology Department:
 Grants Pass or Medford. 541-245-7902
 Toll free in Oregon 800-411-6508, Ext. 7902
 email manufacturing@roguecc.edu
 Web address www.roguecc.edu/manufacturing
 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.

Career Pathways Certificate (CPC) — Mechatronics: Maintenance Technician (12-21 credits)

- Installation & Maintenance Helper ¹
- Machinist Helper ¹

Certificate of Completion (CC) — Mechatronics Specialist (47 credits)

- Mechatronics Technician ¹
- Assembly Technician ¹
- Engineering Technician ¹
- Manufacturing Technician ¹
- Calibration Technician ¹

Associate of Applied Science (AAS) — Mechatronics (91-108 credits)

- Mechanical Engineering Technician ¹
- Industrial Engineering Technician ¹
- Manufacturing Maintenance Technician ¹

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

Completion Requirements

Students are required to complete all courses in this program with a grade of "C" or better to receive their degrees. 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>.