

Automotive Technology

Holland code family: Doers

About the Program

The Automotive Technology two-year degree program is designed for students seeking a career in today's automotive service industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern automobiles based upon Automotive Service Excellence (ASE) standards.

The design of the program places heavy emphasis upon actual hands-on work in the automotive labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of domestic and import automobiles. As the level of student skill develops, so does the difficulty of the repairs performed.

If students intend to transfer to Oregon Tech's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an adviser for more information, or visit <http://www.oit.edu/academics/academic-agreements/articulations>.

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 automotive technology are:

- Diagnose and repair all major vehicle systems.
- Document repairs of vehicles accurately and descriptive of concern, cause, and correction.
- Effectively locate and utilize technical information required for vehicle repairs.
- Work safely and responsibly within all shop standards and environmental guidelines.
- Successfully pass at least two Automotive Service Excellence (ASE) technical skill assessments.
- Function collaboratively as a member of a team to achieve specified and measurable results.
- Demonstrate comprehensive knowledge of employer expectations and ethical work practice.
- Demonstrate accuracy, proficiency and quality in task performance.
- Strategize professional growth in automotive industry.

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. Students must also meet certain program requirements in the first and third terms, and complete any prerequisites before advancing in the program.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification and industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Graduation Requirements

Students must 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.

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		0-7

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4



HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider	1
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
SP100	Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication or WR122 English Composition II	3-4
WR121	English Composition I	4

Total General Education Credits 16-21

First Year Technical Requirements

Course No.	Course Title	Credits
First Term		
AM120	Automotive Maintenance and Trades Practices	6
AM122	Gasoline Engines Rebuild	7
		13
Second Term		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
Third Term		
AM141	Manual Transmissions and Transaxles	6
AM151	Automotive Brake Systems	6
		12
Fourth Term (Summer)		
AM190	Automotive Repair Lab I ¹	4
AM270	Air Conditioning for Automotive Technicians	5
		9
Total First Year Credits		48

Second Year Technical Requirements ²

Course No.	Course Title	Credits
Fifth Term		
AM160	Automotive Suspension and Steering Systems	6
AM232	Computerized Engine Management Systems	7
		13
Sixth Term		
AM233	Advanced Automotive Computer Systems	7
AM242	Automatic Transmissions and Transaxles	7
		14
Seventh Term		
AM210	Mechanical Careers Development or BA109 Ready, Set, Work: Techniques for Landing a Job	2-3
AM252	Advanced Diagnostic Lab	4
AM280	Cooperative Work Experience/Automotive or AM290 Automotive Repair Lab II ²	4
		10-11
Total Second Year Credits		37-38
TOTAL PROGRAM CREDITS		101-107

Approved Program Electives

Course No.	Course Title	Credits
AM199	Selected Topic Workshop	1

¹ Can be taken anytime during the program with permission of adviser.

² Students must be making progress in completing general education requirements prior to entry into the second year.

For more information contact the Automotive Technology Department:

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 Web address www.rogucecc.edu/Automotive
 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.

