



**2009-2010
Career and Technical
Programs**

**Advanced
Technology Division
(541) 463-5380**

**Two-Year Associate
of Applied Science
Degree**

**Two-Year Certificate
of Completion**

Automotive Technology

Purpose To prepare the graduate for employment as an automotive service technician working at company-owned repair stations, fleets, independent garages, gas stations, or new car dealerships.

Learning Outcomes The graduate will:

- use automotive service resources to complete lab projects and become familiar with computer accessed information, internet accessed information and information available in print related to automotive repair.
- be able to perform computations for gear ratios, engine displacement, electrical circuits, power output, vehicle alignment angles, conversion between the metric system and standard system, and use of precision measuring tools.
- diagnose and repair current vehicles using advanced diagnostic tools and equipment.
- successfully complete ASE certification tests.
- demonstrate and use industry safety standards.

Employment Trends Statewide, 300 annual openings for automotive technicians are projected in Oregon and 30 openings are projected annually in Lane County. Those with an associate degree have a competitive advantage in this labor market.

Wages Statewide average, \$19 hourly, \$39,000 annually (\$50,000+ with experience). Lane County average, \$18 hourly, \$38,000 annually.

Costs in Addition to Tuition and Registration Fees (estimates)*

Books	\$1,100
Tools.....	\$700-1,000
Fees.....	\$504
Total	\$2,154-2,304

*See the online class schedule for program differential fees. Subject to change without notice.

Program Certification National Automotive Technicians Education Foundation, a nonprofit foundation within the National Institute for Automotive Service Excellence.

Prerequisites Minimum placement score of 68 in Reading or completion of RD 080 or prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Program Application for Admission New students to the Automotive program are required to:

1. Complete an application for admission to Lane Community College (available online) and complete placement testing in reading, writing, and mathematics;
2. Complete an application for admission to the Automotive Technology program, available in the Advanced Technology Division office; and
3. Submit your completed program application (including the \$25 non-refundable application fee) to the Advanced Technology Division office by the date noted on the application.

Students may enter this program fall, winter or spring terms. Students must attend the program orientation for fall term entry (dates available in Counseling or Enrollment and Student Financial Services) or contact advisor/counselor for winter or spring term entry.

Criteria for Admission Students are selected based on a timely application to the program and a point allocation system. NOTE: Contact the Division Office for information on the Fast Track curriculum (Fall term entry only).

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Automotive Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits in AM 280 may be earned in lieu of required Automotive Technology course credits. Contact Marv Clemons, Automotive Co-op Coordinator, Bldg. 8, Rm. 111, (541) 463-3158.

Automotive Technology

Program Advisor Betty Svarverud, Bldg. 12, Rm. 203,
(541) 463-5378, svarverudb@lanecc.edu

Program Counselor Carolyn Litty, Bldg. 12, Rm. 202,
(541) 463-5236, littyc@lanecc.edu

Two-Year Associate of Applied Science Degree

First Year	Fall
AM 145 Engine Repair ^{*,D,G}	12
MTH 076 Applied Geometry for Technicians ^{*,D,G,M} or higher mathematics	4
Total Credits	16

	Winter
AM 149 Manual Drive Trains and Axles ^{*,D,G}	6
AM 147 Suspension and Steering ^{*,D,G}	6
WLD 121 Shielded Metal Arc Welding 1 [*]	4
PE/Health requirement ^{D,R}	3
Total Credits	19

	Spring
AM 242 Automatic Transmissions/Transaxles ^{*,D,G}	12
WR 115W Introduction to College Writing: Workplace Emphasis ^{D,W} or higher writing	3
Total Credits	15

Second Year	Fall
AM 243 Electrical and Electronic Systems ^{*,D,G}	12
CS 120 Concepts of Computing: Information Processing ^S or higher computer science	4
Choice of:.....	4
Science or Computer Science course ^{*,S}	
ET 129 Electrical Theory 1 ^{*,S}	
Total Credits	20

	Winter
AM 244 Engine Performance ^{*,D,G}	12
CG 203 Human Relations at Work ^H	3
Choice of:.....	4
SP 100 Basic Communications ^A	
SP 105 Listening and Critical Thinking ^A	
SP 218 Interpersonal Communications ^A	
Total Credits	19

	Spring
AM 143 Brakes ^{*,D,G}	8
AM 246 Heating and Air Conditioning ^{*,D,G}	4
AM 280 Co-op Ed: Automotive ^{D,G}	3
Total Credits	15

Two-Year Certificate of Completion

First Year	Fall
AM 145 Engine Repair ^{*,D,G}	12
MTH 076 Applied Geometry for Technicians ^{*,D,G,M} or higher mathematics	4
Total Credits	16

	Winter
AM 149 Manual Drive Trains and Axles ^{*,D,G}	6
AM 147 Suspension and Steering ^{*,D,G}	6
WLD 121 Shielded Metal Arc Welding 1 [*]	4
Total Credits	16

	Spring
AM 242 Automatic Transmissions/Transaxles ^{*,D,G}	12
PE/Health elective ^{D,R}	3
Total Credits	15

Second Year	Fall
AM 243 Electrical and Electronic Systems ^{*,D,G}	12
WR 115W Introduction to College Writing: Workplace Emphasis ^{D,W} or higher writing	3
Total Credits	15

	Winter
AM 244 Engine Performance ^{*,D,G}	12
CG 203 Human Relations at Work ^H	3
Total Credits	15

	Spring
AM 143 Brakes ^{*,D,G}	8
AM 246 Heating and Air Conditioning ^{*,D,G}	4
AM 280 Co-op Ed: Automotive ^{D,G}	3
Total Credits	15

an equal opportunity/affirmative action institution committed to cultural diversity
and compliance with the Americans with Disabilities Act 6/09

Standard footnotes:

- * Prerequisite required
- A Meets Arts/Letters requirement
- B Must be passed with grade of "B-" or better to use as a prerequisite
- D Degree or certificate requirement; must be passed with grade of "C-" or better
- G Must be taken for a grade, not P/NP; major requirement

- H Meets Human Relations/Social Science requirement
- M Meets Mathematics requirement
- P Meets PE/Health requirement
- R Required for AAS degree
- S Meets Science/Math/Computer Science requirement
- W Meets Written Communications or English Composition requirement