

2011 - 2012 Career and Technical Programs

Advanced Technology Division 541.463.5380

lanecc.edu

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 of the Associate of Applied Science degree or the Two-Year Certificate of Completion 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.
- access library, computing, and communications services and obtain information and data from regional and national networks.
- interpret the concepts of a problem-solving task and translate them into mathematical equations.

Employment Trends

- Lane County openings 30 annually, projected through 2018
- Statewide openings 300 annually, projected through 2018

Those with an associate degree in one of the program options will have a competitive advantage in the labor market.

Wages

- Average hourly rate in Lane County \$17
- Average annual rate in Lane County \$35,000
- Average hourly rate Statewide \$18.50
- Average annual rate Statewide \$40,000 (\$50,000+ with experience)

Automotive Technology

Two-Year Associate of Applied Science Degree Two-Year Certificate of Completion

Costs in Addition to Tuition and Registration Fees (e	estimates)*
Books	\$1,100
Tools	\$700-1,000
Differential Fees*	\$2,337
Class Fees	<u>\$525</u>
Total	\$4,662-4,962

*This is the total of all the differential fees attached to Automotive Technology courses. These and other fees may change during the year - see the online credit class schedule for fees assigned to courses.

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.

Admission Information Contact the Advanced Technology Division, or see *lanecc.edu/advtech/AT/admissionAT.htm*

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 Coop 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, *clemonsm@lanecc.edu*.

Automotive Technology

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 or	
nigner mathematics	4
- Total Credits	16
	Mintor
AM 149 Manual Drive Trains and Axles *,D,G	winter 6
AM 147 Suspension and Steering *,D,G	6
WLD 121 Shielded Metal Arc Welding 1 *	4
PE/Health requirement ^{D,R}	3
Tatal Cradita	10
	19
	Spring
AM 242 Automatic Transmissions/Transaxles *,D,G	12
WR 115W Introduction to College Writing: Workplace	
Emphasis ^b or higher writing	3
Total Credits	15
Second Year	Fall
AM 243 Electrical and Electronic Systems ^{^,D,G}	12
or higher computer science	4
Choice of:	4
Science or Computer Science course *	
ET 129 Electrical Theory 1	
- Total Credite	
	20
	Winter
AM 244 Engine Performance *,D,G.	12
CG 203 Human Relations at Work	3
SP 100 Basic Communications	4
SP 105 Listening and Critical Thinking	
SP 218 Interpersonal Communications	
Iotal Credits	19
	Spring
AM 143 Brakes *,D,G	8
AM 246 Heating and Air Conditioning *,D,G	4
AIVI 280 CO-OP Ed: AUTOMOTIVE ^{D,G}	3
Total Credits	15

Two-Year Certificate of Completion

First Year AM 145 Engine Benair * ^{D.G}	Fall
MTH 076 Applied Geometry for Technicians *,D,G or	12
higher mathematics	4
Total Credits	16
	Winter
AM 149 Manual Drive Trains and Axles *,D,G	6
WLD 121 Shielded Metal Arc Welding 1 *	6
Total Credits	16
	Spring
AM 242 Automatic Iransmissions/ Iransaxles *,0,9 PE/Health elective ^{D,R}	12 3
Total Credits	15
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace	Fall 12
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing	Fall 12 3
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits	Fall 12 3
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits	Fall 12 3 15 Winter
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits	Fall 12 3 15 Winter 12
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits AM 244 Engine Performance ^{*,D,G} CG 203 Human Relations at Work	Fall 12 3 15 Winter 12 3
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits AM 244 Engine Performance ^{*,D,G} CG 203 Human Relations at Work Total Credits	Fall 12 3 15 Winter 12 3 15
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits AM 244 Engine Performance ^{*,D,G} CG 203 Human Relations at Work Total Credits	Fall 12 3 15 Winter 12 3 15 Spring
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits AM 244 Engine Performance ^{*,D,G} CG 203 Human Relations at Work Total Credits AM 143 Brakes ^{*,D,G} AM 246 Heating and Air Conditioning ^{*,D,G}	Fall 12 3 15 Winter 12 3 15 Spring 8 4
Second Year AM 243 Electrical and Electronic Systems ^{*,D,G} WR 115W Introduction to College Writing: Workplace Emphasis ^D or higher writing Total Credits AM 244 Engine Performance ^{*,D,G} CG 203 Human Relations at Work Total Credits AM 143 Brakes ^{*,D,G} AM 246 Heating and Air Conditioning ^{*,D,G} AM 280 Co-op Ed: Automotive ^{D,G}	Fall 12 3 15 Winter 12 3 15 Spring 8 4 3

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

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Standard footnotes:

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
R Required for AAS degree

- Prerequisite required
- B Must be passed with grade of "B" or better to use as a prerequisite