LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Advanced Technology Vehicles
Associate in Applied Science Degree

Curriculum Code: 1446 (Effective Fall 2011 – Summer 2016)

This program is intended for individuals who are currently employed in the automotive repair industry. Students are trained specifically in the area of advanced vehicle technology and are prepared to take the State of Michigan Mechanics Certification Tests to become automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semesters in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Technology Program is also a member of the National Alternative Fuels Training Consortium (NAFTC). **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Maintenance Technologies Program, West Campus Building, Room M127, telephone number (517) 267-6406 (Website: www.lcc.edu/transportation/automotive/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS (See Note 1) — TOTAL: 43 CREDITS

CODE	TITLE	CREDIT HOURS
AEET 218	Fuel Cell & Hydrogen Tech	3
AUTO 100	Automotive Service I	3
AUTO 110	Automotive Electrical Theory	5
AUTO 130	Automotive Engines I	5
AUTO 210	Adv Auto Electrical/Electronic	3
AUTO 215	Engine Performance & Tune-Up	5
AUTO 225	Automotive Computers	5
AUTO 260	Intro to Alternative Fuels	2
AUTO 263	Electric/Fuel Cell Technology	2
AUTO 264	Gaseous Fuels	3
AUTO 265	Hybrid Vehicle Technology	2
AUTO 266	Hydrogen Application & Safety	2
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS — TOTAL: 18-27 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: General Education Core Areas **12-17 Credits**

(See *General Education Core Requirements* for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	3-4
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
	Science Core Area	3-5
	Writing Core Area (See Note 2)	0

CHOICE 2: Advanced Technology Vehicle Related (See Note 3) **6-10 Credits**

AUTO 134	Light Duty Diesel Engines	3
AUTO 190	Automotive Special Topics	2-4
AUTO 280	Automotive Service Laboratory	4-6
AUTO 285	Automotive Internship (See Note 4)	3
	MINIMUM TOTAL	**61**

NOTES:

1. Prerequisites to courses may be waived based on experience. See a program advisor prior to registration for more information.
2. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
3. Contact the Transportation Maintenance Technologies Program Coordinator at (517) 483-1375 for additional automotive related classes that will satisfy this area.
4. AUTO 285 may be repeated one time for a total of 6 credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I	II	III	IV
AEET 218	AUTO 210	AUTO 225	AUTO 260
AUTO 100	AUTO 215	Lim.Ch.1	AUTO 265
AUTO 110	Lim.Ch.1	Lim.Ch.2	Lim.Ch.1
AUTO 130	Lim.Ch.1		Lim.Ch.2
WRIT 124			

V
AUTO 263
AUTO 264
AUTO 266
Lim.Ch.2