

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Automotive Technology
Associate in Applied Science Degree

Curriculum Code: 0238 (Effective Fall 2011 – Summer 2016)

This program prepares individuals to work in the automotive field as a technician. Students learn all aspects of automobile repair, diagnosis and maintenance. This program prepares the individual to take the State of Michigan Mechanics Certification Tests and become a licensed automotive technician through the Secretary of State. State certification tests are available at the end of fall and spring semester 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). **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

CODE	TITLE	TOTAL: 56 CREDITS CREDIT HOURS
AUTO 100	Automotive Service I	3
AUTO 110	Automotive Electrical Theory	5
AUTO 120	Automotive Drive Train	3
AUTO 121	Automatic Transmissions I	5
AUTO 122	Automatic Transmissions II	3
AUTO 130	Automotive Engines I	5
AUTO 140	Automotive Brakes	3
AUTO 150	Auto Steering & Suspension	3
AUTO 160	Auto Heating/Air Conditioning	3
AUTO 210	Adv Auto Electrical/Electronic	3
AUTO 215	Engine Performance & Tune-Up	5
AUTO 225	Automotive Computers	5
AUTO 235	Adv Computer/ABS Brake Systems	3
METM 190	Metallurgy and Heat Treatment	4
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 15-18 CREDITS

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

CHOICE 1: General Education Core Areas**9–12 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 (See Note 1)	0
Writing Core Area (See Note 1)	0

CHOICE 2: Automotive Related (See Note 2)**6 Credits**

AUTB 110	Non-Structural Repair	3
AUTB 118	Introduction to Refinishing	5
AUTO 131	Automotive Engines II	3
AUTO 133	Small Engine Repair	3
AUTO 134	Light Duty Diesel Engines	3
AUTO 195	Motorcycle Service	3
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
AUTO 270	High Performance Engine Mach I	5
AUTO 271	High Performance Eng Mach II	5
AUTO 280	Automotive Service Laboratory	4–6
AUTO 285	Automotive Internship (See Note 3)	3
METM 110	Intro to Precision Machining (See Note 4)	4

MINIMUM TOTAL**71****NOTES:**

1. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
2. Contact the Transportation Maintenance Technologies Program Coordinator at (517) 483-1375 for additional automotive related classes that will satisfy this area.
3. AUTO 285 may be repeated one time for a total of 6 credits toward this degree.
4. Basic mechanical drafting skills are necessary for this course and may be demonstrated by a score of 80% or better on the Drafting Placement Test or by passing METD 100 or METD 150 with a 2.0 minimum grade.

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
AUTO 100	AUTO 121	AUTO 120	AUTO 122
AUTO 110	AUTO 160	AUTO 150	AUTO 235
AUTO 130	AUTO 210	AUTO 225	Lim. Ch.
AUTO 140	AUTO 215	Lim. Ch.	Lim. Ch.
WRIT 124	METM 190	Lim. Ch.	Lim. Ch.