

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Automotive Technology
Associate in Applied Science Degree

Curriculum Code: 0238 (Effective Fall 2006 – Summer 2011)

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 or counselor 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 Technologies Department, West Campus Building, Room M103, telephone number (517) 267-5880 or Counseling and Advising Centers, Gannon Vocational-Technical Center, Room 204, telephone number (517) 483-1904.

REQUIREMENTS

CODE	TITLE	TOTAL: 52 CREDITS CREDIT HOURS
AUTO100	Automotive Service I	3
AUTO110	Automotive Electrical Theory	5
AUTO120	Automotive Drive Train	3
AUTO121	Automatic Transmissions I	5
AUTO122	Automatic Transmissions II	3
AUTO130	Automotive Engines I	5
AUTO140	Automotive Brakes	3
AUTO150	Automotive Steering & Suspension	3
AUTO160	Automotive Heating & Air Conditioning	3
AUTO210	Advanced Auto Electrical/Electronics	3
AUTO215	Engine Performance & Tune-Up	5
AUTO225	Automotive Computers	5
AUTO235	Advanced Computer/ABS Brake Systems	3
WRIT124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS**TOTAL: 19–23 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: General Education Core Areas****13–17 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	4–5
Writing Core Area (See Note 1)	0

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

AUTB110	Non-Structural Repair	3
AUTB118	Introduction to Refinishing	5
AUTO131	Automotive Engines II	3
AUTO133	Small Engine Repair	3
AUTO134	Light Duty Diesel Engines	3
AUTO260	Introduction to Alternative Fuels	2
AUTO261	Alternative Fuels – CNG	3
AUTO262	Alternative Fuels–Propane (LPG)	3
AUTO270	Race Engine Machining I	5
AUTO277	Race Engine Assembly	5
AUTO280	Automotive Service Laboratory	4–6
AUTO285	Automotive Internship (See Note 3)	3
PMMT105	Machine Tool Survey	4
PMMT190	Metallurgy and Heat Treatment	4

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

1. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
2. Contact the Automotive Technology Program Coordinator at (517) 483–1375 for additional automotive related classes that will satisfy this area.
3. AUTO285 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 or counselor for help with adjustments.

I	II	III	IV
AUTO100	AUTO121	AUTO120	AUTO235
AUTO110	AUTO160	AUTO122	Lim.Ch.
AUTO130	AUTO210	AUTO150	Lim.Ch.
AUTO140	AUTO215	AUTO225	Lim.Ch.
WRIT124	Lim.Ch.	Lim.Ch.	Lim.Ch.