

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Automotive Technology, Advanced Technology Vehicle Specialist
Certificate of Achievement

Curriculum Code: 1757 (Effective Fall 2015 – Summer 2020)

Program Description

This program prepares individuals to work as an advanced technology vehicle maintenance, diagnosis, and repair specialist. Students who complete this certificate will further their education in the advanced technology vehicle field of study. Students will specialize in hybrid drive, alternative fuel, and battery electric vehicle propulsion system maintenance, diagnosis, and repair. This prepares the student for ASE testing and certification in these specialty areas. Technicians that are highly trained and certified in advanced technology vehicles are more desirable to employers. All credits in this program apply toward the Automotive Technologies Associate degrees. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, and a National Alternative Fuels Training Consortium (NAFTC) Certified Training Center.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Transportation Maintenance Technologies Department, West Campus Building, Room M103, 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

TOTAL: 40 CREDITS

CODE	TITLE	CREDIT HOURS
AUTM 101	Automotive Shop Safety	2
AUTM 110	Auto Electrical Fundamentals	4
AUTM 115	Snap-On Diagnostic Equip Cert	2
AUTM 130	Engine Mechanical Repair I	2
AUTM 170	Drivability Fundamentals	2
AUTM 180	Intro to Alternative Fuels	2
AUTM 210	Adv Electrical/Electronics	5
AUTM 270	Gas Eng Drivability Diagnosis	4
AUTM 280	Electric/Fuel Cell Technology	2
AUTM 282	Gaseous Fuels	3

AUTM 284	Hybrid Systems & Maintenance	4
AUTM 286	High Voltage Battery Tech	4
AUTM 288	High Voltage Management	4

MINIMUM TOTAL **40**

NOTE:

1. Students must complete each of these courses with a minimum 2.0 grade to receive this certificate.

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 – Fall	II – Spring	III – Fall
AUTM 101	AUTM 210	AUTM 280
AUTM 110	AUTM 270	AUTM 282
AUTM 115	AUTM 286	AUTM 284
AUTM 130		AUTM 288
AUTM 170		
AUTM 180		