

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1791
(Effective Fall 2018 –
Summer 2023)

Automotive Technologies A.A.S. Pathway

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Associate Degree will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Students explore various aspects of modern automobile theory and operation, diagnosis, repair, and maintenance for all major systems of the vehicle. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment. Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity to take State of Michigan as well as the nationally recognized ASE tests throughout this program to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests as well as the cost of most of their automotive textbooks. Select general education courses compliment this degree. 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 Program is a Snap-On Diagnostics Training Center and 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. Students completing this curriculum may also be eligible to apply for multiple certificates in Automotive Technologies.

For More Information

Contact the Automotive Technology Program, West Campus Building, Room M103, telephone number (517) 267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

Semester I Fall	Course Title	Prerequisites	Credit/Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 124	Technical Writing	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3

Program of Study Requirements			
AUTM 102	Automotive/Collision Safety	(Reading Level 3 or ENGL 098 concurrently) and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	1 / 1
AUTM 111	Automotive Electrical I	Minimum 2.0 in ((AUTM 102 or concurrently) or AUTM 101) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 141	Braking Systems and ABS	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 151	Suspension and Steering	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			16 / 22
Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AUTM 113	Automotive Electrical II	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 131	Automotive Engine Repair	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 161	Auto Heating/Air Conditioning	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 211	Automotive Electrical III	Minimum 2.0 in (AUTM 113 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			16 / 24

Semester III Summer	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110	Oral Comm. In the Workplace	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
Math Core Area - <i>Select 1</i>			
MATH 115	Technical Math II	(Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5	4 / 4
Credits			7 / 7
Semester IV Fall	Course Title	Prerequisites	Credit/Billing Hours
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
Program of Study Requirements			
AUTM 125	Manual Drive Train and Axles	Minimum 2.0 in ((AUTM 102 or concurrently) or AUTM 101) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 126	Automatic Transmissions	Minimum 2.0 in ((AUTM 111 or concurrently) or AUTM 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 180	Intro to Alternative Fuels	(Reading Level 3 or ENGL 098 concurrently) and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	2 / 2
AUTM 270	Gas Eng Drivability Diagnosis	Minimum 2.0 in ((AUTM 211 or concurrently) or AUTM 210) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			17 / 23

Semester V Spring	Course Title	Prerequisites	Credit/Billing Hours
Science Core Area - <i>Select 1</i>			
PHYS 200	Intro To Applied Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 109 concurrently)	4 / 5
Program of Study Requirements			
AUTM 273	Lt. Diesel Drivability Diag.	Minimum 2.0 in (AUTM 270 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 275	Ignition/Emission Sys Diag	Minimum 2.0 in (AUTM 270 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 284	Hybrid Systems & Maintenance	Minimum 2.0 in (AUTM 180 and AUTM 270) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			16 / 23
Total Credits			72 / 99