

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 1763 (Effective Fall 2017 – Summer 2022)	Automotive Technology, Hybrid and Alternative Fuels A.A.S. Pathway		
Semester I FALL	Course Title	Prerequisites	Credit/ Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 124 (formerly WRIT 124)	Technical Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
Program of Study Requirements			
AUTM 101	Automotive Shop Safety	Reading Level 3 and Writing Level 2 and Math Level 3	2 / 2
AUTM 110	Auto Electrical Fundamentals	Minimum 2.0 in ((AUTM 101 or concurrently) or AUTO 100) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 112	Battery/Start/Charge Systems	Minimum 2.0 in ((AUTM 110 or concurrently) or AUTO 111) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
AUTM 115	Snap-On Diagnostic Equip Cert	Minimum 2.0 in ((AUTM 101 or concurrently) or AUTO 100) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
AUTM 130	Engine Mechanical Repair I	Minimum 2.0 in ((AUTM 101 or concurrently) or AUTO 100) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
AUTM 170	Drivability Fundamentals	Minimum 2.0 in ((AUTM 101 or concurrently) or AUTO 100) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
Credits			17 / 23

Semester II SPRING	Course Title	Prerequisites	Credit/Billing Hours
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
Program of Study Requirements			
AUTM 180	Intro to Alternative Fuels	Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
AUTM 210	Adv Electrical/Electronics	Minimum 2.0 in (AUTM 110 or AUTO 111) and Reading Level 3 and Writing Level 2 and Math Level 3	5 / 8
AUTM 270	Gas Eng Drivability Diagnosis	Minimum 2.0 in ((AUTM 210 or concurrently) or AUTO 211) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 273	Lt. Diesel Drivability Diag.	Minimum 2.0 in ((AUTM 270 or concurrently) or AUTO 221) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			19 / 27
Semester III SUMMER	Course Title	Prerequisites	Credit/ Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110 (formerly SPCH 110)	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
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
Credits			6 / 6

Semester IV FALL	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
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 280	Electric/Fuel Cell Technology	Minimum 2.0 in ((AUTM 180 or AUTO 260) and (AUTM 270 or AUTO 221)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 2.5
AUTM 284	Hybrid Systems & Maintenance	Minimum 2.0 in ((AUTM 180 or AUTO 260) and (AUTM 270 or AUTO 221)) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
AUTM 286	High Voltage Battery Tech	Minimum 2.0 in ((AUTM 180 or AUTO 260) and (AUTM 270 or AUTO 221 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
Credits			14 / 20.5

Semester V SPRING	Course Title	Prerequisites	Credit/Billing Hours
Science Core Area - <i>Select 1</i>			
PHYS 200	Intro Physics with Application	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 5
Program of Study Requirements			
AUTM 282	Gaseous Fuels	Minimum 2.0 in ((AUTM 180 or AUTO 260) and (AUTM 270 or AUTO 221)) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
AUTM 288	High Voltage Management	Minimum 2.0 in ((AUTM 180 or AUTO 260) and (AUTM 286 or AUTO 267)) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 7
AUTM 290	Automotive Internship	Department Approval	2 / 2
AUTM 295	Automotive Mastery Cert	Minimum 2.0 in (AUTM 290 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
Credits			15 / 21
Total Credits			71 / 97.5