

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 0745
 (Effective Fall 2018 –
 Summer 2023)

Powerplant Maintenance Technology A.A.S. Pathway

Powerplant Maintenance Technicians maintain aircraft in accordance with the Federal Aviation Regulations. Technicians perform inspections, repairs and alterations to aircraft powerplants, propellers and their related systems. In addition, they troubleshoot the operation of induction, cooling, exhaust, fuel metering, ignition, electrical, starting, lubrication propeller and other associated systems. Powerplant maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

For More Information

Contact the Aviation Technology Program at the Mason-Jewett Field, 655 Aviation Drive, Mason, telephone number (517) 483-1406.

Semester I Fall	Course Title	Prerequisites	Credit/Billing Hours
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Program of Study Requirements

AVGM 111	Aviation General I	Department Approval	4 / 5
AVGM 112	Aviation General II	Department Approval	6 / 8
AVGM 113	Aviation General III	Department Approval	4 / 5
AVGM 114	Materials and Processes	Department Approval	5 / 7

Credits **19 / 25**

Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
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Program of Study Requirements

AVPP 251	Reciprocating Engine Systems	Department Approval	2 / 2.5
AVPP 253	Reciprocating Ignition Systems	Department Approval	5 / 6.75
AVPP 255	Reciprocating Induction Sys	Department Approval	4 / 5.5
AVPP 257	Aircraft Propeller Systems	Department Approval	4 / 5.5
AVPP 259	Turbine Engine I	Department Approval	4 / 5.5

Credits **19 / 25.75**

Semester III Summer	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVAF 212	Aircraft Electrical II	Department Approval	4 / 5.75
AVPP 261	Turbine Engine II	Department Approval	4 / 5.5
AVPP 263	Turbine Engine Systems	Department Approval	2 / 2.75
AVPP 265	Powerplant Instruments	Department Approval	2 / 2.5
AVPP 267	Powerplant Certification	Department Approval	1 / 1.5
Credits			13 / 18
Semester IV Fall	Course Title	Prerequisites	Credit/Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
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
ENGL 127	Business Writing	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 117	Math for Business	(Minimum 2.0 in MATH 105 or MATH 106 or MATH 107 within 2 years or Math Level 5 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
MATH 119	Math - Applications for Living	(Minimum 2.0 in MATH 105 or MATH 106 or MATH 107 or Math Level 5) and Reading Level 5 and Writing Level 4	4 / 4
Program of Study Requirement			
AVPP 241	Reciprocating Engine	Department Approval	8 / 11.25
Credits			15-16 / 18.25-19.25

Semester V Spring	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
COMM 120	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3
COMM 140	Interpersonal Communication	Reading Level 5 and Writing Level 6	3 / 3
Science Core Area - <i>Select 1</i>			
ASTR 201	Introductory Astronomy	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 or MATH 109 concurrently)	4 / 5
BIOL 120	Environmental Science	(Reading Level 5 or ENGL 099 concurrently) and Writing Level 6	4 / 6
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
HUMS 214	World Civilizations from 1600	Reading Level 5 and Writing Level 6	4 / 4
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
SOCL 120	Introduction to Sociology	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)	4 / 4
Credits			10-11 / 11-13
Total Credits			76-78 / 98-101