



Powerplant Maintenance Technology A.A.S.

Curriculum Code: 0745

Effective: Fall 2019 – Summer 2024

Description

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.

Contact Information

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

General Education Core Courses, Recommended Choices

(For the full list of options, see [General Education Core](#))

- Communication – *Select one*
COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
COMM 130, Fund of Public Speaking, 3 credits / 3 billing hours
COMM 140, Interpersonal Communication, 3 credits / 3 billing hours

- Global Perspective and Diversity – *Select one*
HUMS 213, World Civilizations to 1600, 4 credits / 4 billing hours
HUMS 214, World Civilizations from 1600, 4 credits / 4 billing hours
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

- Math – *Select one*
MATH 117, Math for Business, 4 credits / 4 billing hours
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours

- Science – *Select one*
ASTR 201, Introductory Astronomy, 4 credits / 5 billing hours
BIOL 120, Environmental Science, 4 credits / 6 billing hours

- Writing – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 124, Technical Writing, 3 credits / 3 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAF 212	Aircraft Electrical II	4 / 5.75
AVGM 111	Aviation General I	4 / 5
AVGM 112	Aviation General II	6 / 8
AVGM 113	Aviation General III	4 / 5
AVGM 114	Materials and Processes	5 / 7
AVPP 241	Reciprocating Engine	8 / 11.25
AVPP 251	Reciprocating Engine Systems	2 / 2.5
AVPP 253	Reciprocating Ignition Systems	5 / 6.75
AVPP 255	Reciprocating Induction Sys	4 / 5.5
AVPP 257	Aircraft Propeller Systems	4 / 5.5
AVPP 259	Turbine Engine I	4 / 5.5
AVPP 261	Turbine Engine II	4 / 5.5
AVPP 263	Turbine Engine Systems	2 / 2.75
AVPP 265	Powerplant Instruments	2 / 2.5
AVPP 267	Powerplant Certification	1 / 1.5

Total Credit Hours

76-78 credits / 98-101 billing hours

Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
AVGM 111	AVPP 251
AVGM 112	AVPP 253
AVGM 113	AVPP 255
AVGM 114	AVPP 257
	AVPP 259

Semester III (Summer)	Semester IV (Fall)
AVAF 212	Math Core
AVPP 261	Writing Core
AVPP 263	AVPP 241
AVPP 265	
AVPP 267	

Semester V (Spring)
Communication Core
Global Perspectives and Diversity Core
Science Core