

AVIATION TECHNICAL OPERATIONS (ATOJ) - 124 hrs. (2026-27 CATALOG)

PREREQUISITES & (CO-REQUISITES)	COURSE	HRS.	GRADE/SUBSTITUTION/TRANSFER
MAJOR COURSES			
	AVS 1910/1915 Aviation Regulations & Human Factors	2+1	
	AVS 1920/1925 Aircraft Basic Science	2+1	
	AVS 1930/1935 Aircraft Inspections	2+1	
	AVS 1940/1945 Aircraft Hardware & Fluid Lines	2+1	
	AVS 1950/1955 Aircraft Electrical	2+1	
AVS 1220, 1910,1915,1920,1925,1940,1945	AVS 2910/2915 Aircraft Metallic Structures	2+1	
AVS 1220, 1920,1915,1920,1925,1940,1945	AVS 2920/2925 Aircraft Non-Metallic Structures	2+1	
AVS 1220,1910,1920,1930,1940	AVS 2930/2935 Light Aircraft Systems	2+1	
AVS 1220, 2930	AVS 2940/2945 Transport Aircraft Systems	2+1	
AVS 1220,1910,1920,1930,1940,1950	AVS 2950/2955 Airframe Rigging	2+1	
AVS 1220,1910,1915,1920,1925,1930,1935,1940,1945,1950,1955	AVS 2960/2965 Airframe Electrical Systems	2+1	
AVS 2910,2915,2920,2925,2930,2935,2940,2945,2950,2955,2960,2965	AVS 2990/2995 Avionics	2+1	
AVS 1225,1910,1915,1920,1925,1940,1945	AVS 3910/3915 Reciprocating Engines	2+1	
AVS 3910, 3915	AVS 3920/3925 Reciprocating Engine Systems	2+1	
AVS 3910, 3915	AVS 3930/3935 Reciprocating Inspection & Repair	2+1	
AVS 3910, 3915, 3950, 3955	AVS 3940/3945 Engine Electrical & Instruments	2+1	
AVS 1225,1910,1915,1920,1925,1930,1935,1940,1945,1950,1955	AVS 3950/3955 Turbine Engine Theory, Design & Inspection	2+1	
AVS 3950, 3955	AVS 3960/3965 Turbine Engine Systems, Operation, & Testing	2+1	
AVS 3910,3915,3920,3925,3930,3935,3940,3945,3950,3955,3960,3965	AVS 3970/3975 Engine Operations	2+1	
	AVS 4630 Professional Maintenance Operations	3	
REQUIRED COGNATES			
	AVS 1200 - Introduction to Aviation (ST)	3	
	AVS 1220 - Introduction to Airframes and Systems	2	
	AVS 1225 - Introduction to Aircraft Powerplants	2	
AVS 1200	AVS 2050 - Aviation Safety	3	
AVS 2050 & Jr. Standing	AVS 3190 - Aviation Law	3	
	BUS 1750 - Applying Business Fundamentals (ODC)	3	
	COM 1700 - Interpersonal Communication I (PW)	3	
	IEE 1020 - Technical Communication (WR)	3	
MATH 1110 or min. 61% ALEKS score	MATH 2000 - Calculus with Applications (QL)	4	
MATH 1100 or min. 40% ALEKS score	PHYS 1070 - Elementary Physics (LS)	4	
MATH 1100 or min. 40% ALEKS score	PHYS 1080 - Elementary Physics Lab	1	
MATH 1100 or min. 40% ALEKS score	STAT 2160 - Introductory Statistics (ST)	3	
COGNATE ELECTIVES (12 hours required) Choose from AVS 1801, 2801, 3141, 3201, 3605, 3650/3655, 3801, 3980/3985, 3990, 4650/4655, 4720/4725, 4740, or 5100			
WMU ESSENTIAL STUDIES			
	IE - Inquiry and Engagement	3	
	SC - Societies and Cultures*	3	
	WLC - World Language and Culture*	3	
	ATP - Artistic Theory and Practice*	3	
	LNP - Local and National Perspectives*	3	
	GP - Global Perspectives*	3	

* One of these courses must contain required content in Planetary Sustainability and one must contain required content in Diversity and Inclusion, which are met in Levels II and III only. No more than 3 courses from any one prefix may be used to satisfy WES requirements.

**Credits earned in ENGL 1000 and MATH 1090 are not accepted toward meeting the 124 hour requirement

***A "C" or higher is required in all AVS courses/no more than two "D" or "DC" grades allowed in non-AVS courses