



Aerospace Engineering Program Agreement

Western Michigan University
Bachelor of Science in Engineering, Aerospace Engineering (B.S.E.)

Kalamazoo Valley Community College
Engineering, Associate of Science (A.S.)

Catalog Year 2023 - 2024

I. KALAMAZOO VALLEY COURSES for GENERAL EDUCATION/Michigan Transfer Agreement (MTA) (30 credits minimum)		
See attached Kalamazoo Valley MTA guide for specific courses from Kalamazoo Valley that will fulfill the MTA requirements		
Kalamazoo Valley Course	WMU (Western Essential Studies) Equivalent	Transfer Credit Hours
English Composition – ENG 110 or ENG 160, and one of the following COM 113, COM 210, ENG 111, ENG, 112, ENG 127, ENG, 227, ENG 260	IEE 1020 and varies	6
Humanities - 2 courses from different subject areas	Varies	6
Mathematics – MATH 160	MATH 1220	5
Science –CHM 120, PHY 221	CHEM 1100/10, PHYS 2050/60	9
Social Sciences – 2 courses from different subject areas	Varies	6
KALAMAZOO VALLEY MTA CREDIT HOURS		32 CREDIT HOURS

II. KALAMAZOO VALLEY COURSES – (30 credits)		
Kalamazoo Valley Course	WMU Equivalent	Transfer Credit Hours
PSI 100, PSI 101, PSI 102, or PSI 126	PSCI 1000, PSCI 2000, PSCI 2020, or PSCI Credit	3
WPE	Varies	2
CIS 150	CIS Credit	3
EDMT 130	EDMM 1420	4
MATH 162	MATH 1230	5
CIS 209	CS 1200	3
MATH 260	MATH 2720	5
PHY 222	PHYS 2070/80	5KV
SECTION II KALAMAZOO VALLEY CREDIT HOURS		30 CREDIT HOURS
TOTAL KALAMAZOO VALLEY CREDIT HOURS		62 CREDIT HOURS

III. WMU COURSES REQUIRED FOR PROGRAM DEGREE (60 credits)		
WMU Course	WMU Course Title	WMU Credit Hours
MATH 3740	Differential Equations	4
CHEM 1120/30	Chemistry II	4
ME 2320	Thermodynamics	3

ME 2560	Statics	3
ME 2570	Mechanics of Materials	3
ECE 2100	Circuit Analysis	4
ME 2580	Dynamics	3
AE 3610	Aerodynamics	4
ME 3600	Control Systems	3
ME 3620	Theory of Eng. Experimentation	3
AE 3710	Aerodynamics II	3
AE 3800	Flight Vehicle Performance	3
ME 3350	Instrumentation	3
AE 4700	Orbital Mechanics	3
AE 4600	Aircraft Stability & Control	3
AE 4630	Aircraft Structural Design	3
AE 4660	Aerospace Propulsion	3
AE 4790	Aero Eng. Project Plan	1
AE 4690	Aircraft Design	3
AE 4760	Aerospace Propulsion II	3
AE 4800 ^{NP}	Aero Eng. Project	3
Aerospace Electives		9
WES Global Perspective		3
WMU Elective Credits to Reach 60		
Varies	Varies	
TOTAL CREDIT HOURS		77 CREDIT HOURS AT WMU

TOTAL CREDITS (I –III)	
62 Kalamazoo Valley Credits	
77 WMU Credits	
139 Total Credits	

Minimum credits required for Kalamazoo Valley associate degree: 62 Minimum credits required at WMU: 60 Total required credits: 122

† Professional level courses that require acceptance into the WMU program

^{GP} WES level 3 courses satisfying Global Perspective

^{NP} WES level 3 courses satisfying National Perspective

Advising Notes

Kalamazoo Valley Student Development Services 269-488-4040 development@kvcc.edu

WMU Academic Advisor 269-276-3270 kyle.m.manninen@wmich.edu

Program Agreement

This agreement shall commence as of Nov 6th, 2023. This program agreement shall abide by all language of the Institutional Agreement between Kalamazoo Valley Community College and Western Michigan University.

Signatures

Kalamazoo Valley Community College

Western Michigan University

Dr. Mark Dunneback Dean of Instruction
Business & Technical Careers
Kalamazoo Valley Community College

William Liou, Chair, Mechanical & Aerospace Engineering
Western Michigan University

Dr. Paige Eagan Provost & Vice-President for
Instruction & Student Services
Kalamazoo Valley Community College

Steve Butt, Dean, College of Engineering & Applied
Sciences
Western Michigan University