



## Electrical Engineering Program Agreement

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

**Kalamazoo Valley Community College**  
Associate of Science, Engineering, (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
<b>KALAMAZOO VALLEY MTA CREDIT HOURS</b>		<b>32 CREDIT HOURS</b>

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
CS 216	CS 1110	3
MATH 162	MATH 1230	5
MATH 260	MATH 2720	5
MATH 264 or CHM 130 * (substitution for EDMT 130)	MATH 3740 or CHEM 1120/30	4-5
PHY 222	PHYS 2070/80	5
<b>SECTION II KALAMAZOO VALLEY CREDIT HOURS</b>		<b>30 CREDIT HOURS</b>
<b>TOTAL KALAMAZOO VALLEY CREDIT HOURS</b>		<b>62 CREDIT HOURS</b>

\* Kalamazoo Valley students should request a pre-approved substitution of MATH 264 or CHM 130 for EDMT 130.

<b>III. WMU COURSES REQUIRED FOR PROGRAM DEGREE (60 credits)</b>		
<b>WMU Course</b>	<b>WMU Course Title</b>	<b>WMU Credit Hours</b>
CHEM 130	General Chemistry II	4
ECE 2500	Digital Logic	3
ECE 2510	Intro to Microprocessors	4
ECE 2100	Circuit Analysis	4
ECE 2210	Electronics I	4
ECE 3100	Network Analysis	3
ECE 3610	Electromagnetic Fields	4
ECE 3200	Electronics II	4
ECE 3710	Linear Systems	3
ECE 3800	Probabilistic Methods	3
IEE 3160	Report Preparation	3
ECE 4810	Senior Design I	2
ECE 3300	Electrical Machinery	4
IEE 3100	Engineering Economy	3
ECE 4820 <sup>NP</sup>	Senior Design II	3
Eng. Science Electives		12
ECE Electives		9
WES Global Perspectives		3
<b>WMU Elective Credits to Reach 60</b>		
Varies	Varies	
<b>TOTAL CREDIT HOURS</b>		<b>76 CREDIT HOURS AT WMU</b>

<b>TOTAL CREDITS (I –III)</b>
62 Kalamazoo Valley Credits
76 WMU Credits
<b>138 Total Credits</b>

Minimum credits required for Kalamazoo Valley associate degree: 62      Minimum credits required at WMU: 60      Total required credits: 142

† Professional level courses that require acceptance into the WMU program

<sup>GP</sup> WES level 3 courses satisfying Global Perspective

<sup>NP</sup> WES level 3 courses satisfying National Perspective

#### Advising Notes

Kalamazoo Valley Student Development Services      269-488-4040      [development@kvcc.edu](mailto:development@kvcc.edu)

WMU Academic Advisor      269-387-3253      [kyle.m.manninen@wmich.edu](mailto:kyle.m.manninen@wmich.edu)

#### Program Agreement

This agreement shall commence as of Nov 6<sup>th</sup>, 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**

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

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Dr. Brad Bazuin, Chair, Electrical & Computer Engineering  
Western Michigan University

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

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