



Mechanical Engineering Program Agreement

Western Michigan University Bachelor of Science (B.S.)

Kellogg Community College Associate in Science (A.S.)

Catalog Year 2023 - 2024

I. KCC COURSES for GENERAL EDUCATION/Michigan Transfer Agreement (MTA) (30 credits minimum)			
	urses from KCC that will fulfill the MTA require		
KCC Course	WMU WES Equivalent	Transfer Credit Hours	
English Composition – ENGL 151/151 H & COMM 110	ENGL 1050 & COM 1000	6	
Humanities - 1 course from: ART 210 ART	Varies	6	
211 ART 212 ART 213 ART 214 HUMA 151			
LITE 105 MUSI 211 SERV 200 THEA 121			
and 1 course in a different subject than			
above from: ART 210 ART 211 ART 212			
ART 213 ART 214 HUMA 151 LITE 105			
LITE 205 LITE 206 LITE 211 LITE 212 LITE			
213 LITE 223 LITE 230 LITE 285 MUSI 130	•		
MUSI 141 MUSI 211 MUSI 240 MUSI 250			
PHIL 230 PHIL 240 SERV 200 THEA 121	15:		
Mathematics - MATH 141	MATH 1220	5	
Science – CHEM 110 and PHYS 221	CHEM 1100/1110 and PHYS 2050/2060	8	
Social Sciences – 1 course from: HIST	Varies	6	
103/103H HIST 104/104H HIST 151/151H			
HIST 152/152H HIST 201 HIST 202 PHIL			
202 POSC 201/201H			
and 1 course in a different subject than			
above from: ANTH 200 ECON 201 ECON			
202 HIST 103/103H HIST 104/104H			
HIST 151/151H HIST 152/152H HIST 201			
HIST 202 HIST 211 HIST 212 HIST 240 HIST			
250 HIST 260 PHIL 201/201H PHIL 202			
POSC 201/201H POSC 202 POSC 210			
POSC 211 PSYC 201/201H PSYC 220	iz		
PSYC 250 PSYC 290 SOCI 201/201H			
SOCI 202 SOCI 205 SOCI 206			
TOTAL CREDIT HOURS		31 CREDIT HOURS AT KCC	

II. KCC required COURSES for PROGRAM - (39 credits)				
KCC Course	WMU Equivalent	Transfer Credit Hours		
Program Prerequisites				
DRAF 101	EDMM 1420	4		
MATH 142	MATH 1230	4		
MATH 241	MATH 2720	4		
PHYS 222	PHYS 2070/80	5		
PHYS 241	ME 2560	3		

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MATH 242	MATH 3740	4
PHYS 243	ME 2580	3
CHEM 111	CHEM 1120/30	4
FYS 101	FYE credit	1
ENGR 256	ME 2560	3
ENGR 258	ME 2580	4
TOTAL CREDIT HOURS		39 CREDIT HOURS AT KCC

	RED FOR PROGRAM DEGREE (60 credits)	《京集》(1912年)以上,京 州中央省大学的《京集》(1912年)
WMU Course	WMU Course Title	WMU Credit Hours
ME 2615	Intro to Mechanical Engineering	3
ME 2320	Thermodynamics I	3
ME 2500	Materials Science	3
ECE 2100	Circuit Analysis	4
ME 3560	Fluid Mechanics	3
ME 3580	Mechanism Analysis	3
ME 3620	Engineering Experimentation	3
ME 3650	Machine Design I	3
ME 3350	Instrumentation	3
ME 3600	Control Systems	3
ME 4310	Heat Transfer	3
ME 4320	Thermodynamics II	3
ECE 2110	Machine and Electronic Circuits	3
ME 4790	Mechanical Eng. Project Planning	1
ME 4800 NP	Mechanical Engineering Project	3
ME Design Electives		6
ME Electives		9
WES Global Perspective		3
WMU Elective Credits to Reach 6	0	
Varies	Varies	
TOTAL CREDIT HOURS		62 CREDIT HOURS AT WMU

TOTAL CREDITS (I –III)	[18] [18] [18] [18] [18] [18] [18] [18]
70 KCC Credits	
62 WMU Credits	
135 Total Credits	

Minimum credits required for KCC associate degree: 60 Minimum credits required at WMU: 60

Total required credits: 120

Advising Notes

KCC Academic Advisor

269-965-4124

advising@kellogg.edu

WMU Academic Advisor- Kyle Manninen

269-387-3260

kyle.m.manninen@wmich.edu

Program Agreement

This agreement shall commence as of April 17, 2023. This program agreement shall abide by all language of the Institutional Agreement between Kellogg Community College and Western Michigan University.

[†] 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

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Kellogg Community College is fully accredited by the <u>Higher Learning Commission</u>. Candidates for a degree or certificate from Kellogg Community College must meet specific requirements including the completion of a minimum of sixty (60) credits hours with a cumulative GPA of 2.0 or higher. All degree requirements are listed in the Kellogg Community College Academic Catalog.

All first-time, degree-seeking, KCC students must complete the FYS 101- First-Year Seminar course with a grade of c or higher. Students who obtain an Associate degree or an Associate of Applied Science degree will be required to complete a service-learning experience.

Candidates for a degree or certification from Kellogg Community College must successfully meet the Bruin Standard of General Education which is the combination of academic General Education outcomes and outcomes met through co-curricular experiences.

Students should meet with a KCC Academic Advisor for course planning and questions regarding this agreement.

Signatures

Kellogg Community College

Dr. Michael Goldin, Chair, Math and Science Kellogg Community College

Dawn Larsen, Interim Dean, Arts and Sciences

Kellogg Community College

Western Michigan University

William Liou, Chair, Mechanical & Aerospace Engineering

Western Michigan University

Steven Butt, Dean, College of Engineering & Applied

Sciences

Western Michigan University