Appendix B to Articulation Agreement between Stark State College and University of Mount Union dated _____

Curriculum for Associate of Science in Mechanical Engineering			Courses Accepted for Transfer at the University of Mount Union		
Stark State College			**University of Mount Union**		
Course	**Fall 1**	Credits	Course		Credits
SSC101	Student Success Seminar	1	FYS100	First Year Seminar	4
ENG124	College Composition	3			
MTH135	Pre-Calculus	5	MTH140	Precalculus	5
CHM141	Principles of Chemistry I	5	CHE110	Foundations in Chemistry	5
	Spring 1				
MTH223	Calculus I	4	MTH141	Calculus I	4
CHM142	Principles of Chemistry II	5	CHE120	Concepts in Chemistry	5
PHL122	Ethics	3	PHL199	Ethics	3
SOC225	Cultural Diversity	3	SOC299	Cultural Diversity	3
	Summer 1				
MTH224	Calculus II	4	MTH142	Calculus II	4
	Fall 2				
PHY221	Physics I	5	PHY101	General Physics I	5
MTH225	Calculus III	4	MTH241	Calculus III	4
MET124	Statics & Strength of Material	4	EGE210[1]	Statics and Dynamics	4
BUS221	Microeconomics	3	ECN200	Microeconomics	3
	Spring 2				
HIS122	U.S. History II from 1877	3	HST199	U.S. History II from 1877	3
MET221	Adv. Strength of Materials	2	EGE240[1]	Mechanics of Materials	4
MET123	Material Science	2	EGE230	Material Science	2
CST121	Modeling and Simulation	3	EGE110[2]	Introdusction to Engineering Profession	3
DET125	Basic AutoCAD	3	EGE120[2]	Introduction to Engineering Analysis and Design	3
Summer 2 (University of Akron)					
	Thermal Science	2	EGE220	Thermofluids I	4
	Fluid Mechanics I	2			
	Bridge Courses				
XXXXXX	Foreign Language I	4	XXX101	Elementary Language I	4
XXXXXX	Foreign Language II	4	XXX102	Elementary Language II	4
MTH227	Differential Equations	3	MTH299	Differential Equations	3
MET223	Dynamics	2	EGE210[1]	Statics and Dynamics	0
PHY222	Physics II	5	PHY102	General Physics II	5

Notes:
(1) MET124+MET221+MET223 (total of 8 credits) = EGE 210 +EGE 240 (total of 8 credits)
(2) CST121+DET 125 (total of 6 credits) = EGE110 +EGE120 (total of 6 credits)

Revised: 1/29/16

UNIVERSITY OF MOUNT UNION

COURSES TO BE COMPLETED AT UNIVERSITY OF MOUNT UNION
BACHELOR OF SCIENCE - MECHANICAL ENGINEERING

Course	Fall 3	Credits		Fall 4	Credits
MTH333	Linear Algebra and Diff. Eqns.	4	PHY230	Electronics	4
EME310	Kinem. & Dynam. of Machinery	4	EME410	Control of Dynamic Systems	4
EME320	Thermo. and Fluid Mech. II	4	EME480	ME Capstone Design I	2
XXX XXX	"A" Foundation	4	EME420	Mechanical Vibrations	4
XXX XXX	"H" Foundation	4	EME430	Heat Transfer	4
	Spring 3			**Spring 4**	
MGT495	Project Management	4	MTH306	Probability and Statistics	4
XXX XXX	Theme I	4	EME490	ME Capstone Design II	4
EGE310	Prod Dev. & Design (Theme II)	4	XXX XXX	ME Tech Elect I	2
EGE320	Intern. Eng. Field Exper.	4	XXX XXX	ME Tech Elect II	2
EME330	Design of Machine Elem.	4	CAP400	Gen. Ed. Capstone	4

Summary	
Mechanical Engineering Major	58
Math Proficiency	0
Foreign Language Proficiency (bridge)	0
Second Year WOC Portfolio	0
XXX XXX "A" Foundation	4
XXX XXX "H" Foundation	4
XXX XXX Theme 1	4
XXX XXX Theme 2	0
XXX XXX Capstone	4
University of Mount Union Coursework	**74**
AS STARK STATE (minimum)	**62**
Additional hours	**22**
Degree Total	**158**

University of Mount Union Transfer Notes:

Total minimum number of hours needed to graduate is 128.

Math Proficiency is met with AS from Stark State

Student must complete a minimum of 48 hours at UMU, of which a minimum of 16 in the major and 8 in the minor are required.

Each student must contact the WOC Director to develop a plan and schedule for the Second Year WOC Portfolio

A minor is required at UMU.

Foreign language proficiency can be met with a proficiency exam OR by taking the a 200 level courses in SPN or CHN at Stark State. If students tested proficient, or successfully passed these courses, no courses would be needed at UMU. If not, the student would need to take one or two foreign language courses.

Only two transfer courses may be used to meet the Foundational Knowledge requirement. The others must be taken at UMU. For Engineering majors, a Fine Art (A) and a Humanities (H) course are required, as a minimum.