

Bachelor of Science in Engineering (Manufacturing)

Examples of course transfer equivalencies at
Muskegon Community College:

Muskegon Community College	Western Michigan University
CHEM 101, 101A Gen Inorganic Chemistry and Lab	CHEM 1100, 1110, Gen Chemistry and Lab
CIS 185,* Comp. Programming	CS 1040, Comp. Programming
COM 201, Public Speaking	COM 1040, Public Speaking
ENG 101,* English Composition	IME 1020, Tech Communications
CAD 110, Intro to CAD (2D)	IME 1420, Engineering Graphics
MATH 215, Prob Stats for Eng	IME 2610, Engineering Statistics
MT 206, CAD/CAM Computer Aided Design/Machining	MFE 2200, Principles of NC/ CNC Machining
MATH 161, Calculus I	MATH 1220, Calculus I
MATH 162, Calculus II	MATH 1230, Calculus II
MATH 283, Calculus III	MATH 2720, Vector Calc.
MATH 295, Diff Eqns w/ Lin Alg	MATH 3740, Lin Algebra and Diff Eqns
ENGR 202, Statics	ME 2560, Eng Statics
ENGR 204, Eng Dynamics	ME 2580, Engineering Dynamics
PHIL 102, Principles of Logic	PHIL 2200, Critical Reasoning
PHYS 203, Eng Physics and Lab	PHYS 2050, 2060 Mechanics and Heat, Lab
PHYS 204, Eng Physics and Lab	PHYS 2070, 2080 Electricity and Light, Lab

* May be substituted for the WMU course
indicated



WMU Program Curriculum

Foundational and Pre-Engineering Curriculum (38 hours)

MATH 1220	Calculus I (4)
MATH 1230	Calculus II (4)
MATH 2720	Vector and Multivariate Calculus (4)
MATH 3740	Linear Algebra & Differential Eqns. (4)
CHEM 1100	General and Inorganic Chemistry (3)
CHEM 1110	General Chemistry Lab (1)
CS 1040	C Programming (2)
PHYS 2050	Mechanics and Heat (4)
PHYS 2060	Mechanics and Heat Lab (1)
PHYS 2070	Electricity and Light (4)
PHYS 2080	Electricity and Light Lab (1)
IME 1020	Technical Communications (3)
MFE 1200	Engineering Design and Verification (3)

Manufacturing Engineering Curriculum (76 hours)

PHIL 2200	Critical Reasoning (3)
PHIL 3160	Ethics in Engineering and Tech (3)
ME 2560	Engineering Statics (3)
ME 2580	Engineering Dynamics (3)
COM 1040	Public Speaking (3)
ECE 2120	Electronic Circuits and Systems (3)
ECE 3120	Fund. of Electronics and Machines (3)
IME 1420	Engineering Graphics
IME 1500	Introduction to Manufacturing (3)
IME 2610	Engineering Statistics (3)
IME 3100	Engineering Economy (3)
IME 3160	Report Preparation (3)
ME 2570	Mechanics of Materials (3)
MFE 2200	Principles of NC/CNC Machining (3)
MFE 3300	Manufacturing Materials (4)
MFE 3400	Design for People at Work (3)
MFE 3600	Computer Control of Man. Process (3)
MFE 4200	Advanced Manufacturing Processes (4)
MFE 4240	Tool Design (3)
MFE 4300	Manufacturing Material II (4)
MFE 4400	Production Engineering (3)
MFE 4420	Quality Assurance (3)
MFE 4440	Simulation of Industrial Operations (3)
MFE 4800	Senior Design I (2)
MFE 4820	Senior Design II (2)

General University Requirements (14 hours)

General Education requirements for Areas I, III, IV, V, and VIII
must include at least one 300+ level course.

Rev. 04/07

WMU-Muskegon