

Bachelor of Science in Engineering (Manufacturing)

Examples of suggested course transfer equivalencies at Lansing Community College:*

Lansing Community College	Western Michigan University
CHEM 151, 161, Gen Chemistry and Lab	CHEM 1100, 1110, Gen Chemistry and Lab
CPSC 230*, Algor & Comput w/C++	CS 1040, Comp. Programming
SPCH 130, Fund of Public Speaking	COM 1040, Public Speaking
WRIT 124*, Technical Writing	IME 1020, Tech Communications
METD 110, Mechanical CAD Drafting I	IME 1420, Engineering Graphics
METM 100, Mfg Processes	IME 1500, Intro to Manufacturing
METM 195, Metrology and METD 130, GD&T	MFE 1200, Engineering Design and Verification
METM 220, Mastercam or METM, 225 Univgraphics	MFE 2200, Principles of NC/CNC Machining
METM 190, Metal/Heat Treatment	MFE 3300, Manufacturing Materials
METD 260, Jigs and Fixture Design	MFE 4240, Tool Design
MATH 151, Calculus I	MATH 1220, Calculus I
MATH 152, Calculus II	MATH 1230, Calculus II
MATH 253, Calculus III	MATH 2720, Vector Calc.
MATH 254, Diff Eqns and MATH 260, Lin Alg	MATH 3740, Lin Algebra and Diff Eqns
CIVL 241, Statics/Str Mats	ME 2560, Eng Statics or ME 2570, Mech of Mtrls
PHIL 151, Intro to Logic	PHIL 2200, Critical Reasoning
PHYS 251, Physic I	PHYS 2050, 2060 Mechanics and Heat, Lab
PHYS 252, Physic II	PHYS 2070, 2080 Electricity and Light, Lab

*Not all of the following LCC courses have received transfer approval. Please talk to an advisor for details.



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 2570	Mechanics of Materials (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)
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.

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