



Manufacturing Engineering Technology (MFT)

Southwestern Michigan College

Curriculum 2010-2011

Semester I - Fall (15 Credits)		
Transfer Course	Course	Credits
ENGL 105 or ENGL 103 & 104	IME 1020 Technical Communication (Prof. 1)	3
INTE 140 & CADD 101	IME 1420 Engineering Graphics	3
	IME 1500 Introduction to Manufacturing (Area VII)	3
MATH 130	MATH 1180 Precalculus Mathematics (Prof. 3)	4
*	Area VIII* Health and Well-Being	2
		15
Semester II - Spring (16 Credits)		
Transfer Course	Course	Credits
CHEM 101	CHEM 1100 General Chemistry I (Area VI)	3
CHEM 101	CHEM 1110 General Chemistry I Lab (Area VI)	1
MATH 141	MATH 1220 Calculus I (or MATH 1700)(Prof. 4)	4
	IME 1220 Automobile in Society (Area VII)	3
PHYS 101	PHYS 1130 General Physics I (Area VI)	4
PHYS 101	PHYS 1140 General Physics I Lab (Area VI)	1
		16
Semester III - Fall (17 Credits)		
Transfer Course	Course	Credits
	IME 2460 Introduction to Computer-Aided Design	3
	IME 2610 Engineering Statistics	3
PHYS 102	PHYS 1150 General Physics II	4
PHYS 102	PHYS 1160 General Physics II Lab	1
	CS 1021 Intro. to Engr. Computing I: Spreadsheets	1
MACH 121	IME 2540 Machining Processes	3
	IME 2830 Thermodynamics	2
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Semester IV - Spring (16 Credits)		
Transfer Course	Course	Credits
	IME 2500 Plastics Properties and Processing	3
	IME 2810 Statics and Strength of Materials	4
	IME 3020 Engr. Teams: Theory & Practice (Area V)	3
	IME 2001 Applied Electricity and Electronics	3
	ME 2500 Material Science	3
		16
Semester V - Fall (18 Credits)		
Transfer Course	Course	Credits
	IME 3480 Designing for Production	3
	IME 3520 Metal Casting	3
	IME 3540 Metrology	3
	IME 3840 Fluid Mechanics and Hydraulics	3
	Approved Elective	3
*	Area IV* Other Cultures and Civilizations	3
		18
Semester VI - Spring (15 Credits)		
Transfer Course	Course	Credits
	IME 3260 Operations Planning and Control	3
	IME 3280 Quality Assurance and Control	3
	IME 3580 Computer-Aided Manufacturing	3
	Approved Elective	3
*	Area II* Humanities	3
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Department of Industrial and Manufacturing Engineering

Leading Process and Product Improvement

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Semester VII - Fall (17 Credits)		
Transfer Course	Course	Credits
	IME 3200 Engineering Cost Analysis	3
	IME 4540 Fabrication, Assembly and Finishing	3
	IME 4580 Manufacturing Systems Integration	3
	IME 4910 Multidisciplinary Senior Proposal (Prof. 2)	2
	Approved Elective	3
*	Area I* Fine Arts	3
		17
Semester VIII - Spring (14 Credits)		
Transfer Course	Course	Credits
	IME 4020 Supervision of Industrial Operations	3
	IME 4570 Manufacturing for Sustainability	2
	IME 4920 Multidisciplinary Senior Project (Prof. 2)	2
	IME 4930 Multidisciplinary Senior Project Consultation	1
	Approved Elective	3
*	Area III* United States: Culture and Issues	3
		14
Total Credits = 128		

Notes: * See WMU's General Requirement Guide

Department of Industrial and Manufacturing Engineering
 Western Michigan University
 Kalamazoo MI 49008-5336 USA
 (269) 276-3350 | (269) 276-3353 Fax

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 Questions: ime-info@wmich.edu