



# Manufacturing Engineering Technology (MFT)

## Grand Rapids Community College

### Curriculum 2010-2011

<b>Semester I - Fall (15 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
EN 249 or EN 101 & 102	IME 1020 Technical Communication (Prof. 1)	<b>3</b>
EG 110	IME 1420 Engineering Graphics	3
	IME 1500 Introduction to Manufacturing (Area VII)	3
MA 131	MATH 1180 Precalculus Mathematics (Prof. 3)	4
*	Area VIII* Health and Well-Being	2
		<b>15</b>
<b>Semester II - Spring (16 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
CM 103 or 113	CHEM 1100 General Chemistry I (Area VI)	3
CM 103 or 113	CHEM 1110 General Chemistry I Lab (Area VI)	1
MA 133	<b>MATH 1220 Calculus I (or MATH 1700)(Prof. 4)</b>	<b>4</b>
	IME 1220 Automobile in Society (Area VII)	3
PH 125	PHYS 1130 General Physics I (Area VI)	4
PH 125	PHYS 1140 General Physics I Lab (Area VI)	1
		<b>16</b>
<b>Semester III - Fall (17 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
	IME 2460 Introduction to Computer-Aided Design	3
	IME 2610 Engineering Statistics	3
PH 126	<b>PHYS 1150 General Physics II</b>	<b>4</b>
PH 126	<b>PHYS 1160 General Physics II Lab</b>	<b>1</b>
	CS 1021 Intro. to Engr. Computing I: Spreadsheets	1
MN 199 or 119	IME 2540 Machining Processes	3
	IME 2830 Thermodynamics	2
		<b>17</b>

<b>Semester IV - Spring (16 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
MN 219 & 220	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
		<b>16</b>
<b>Semester V - Fall (18 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
EG 102 & MN 252	IME 3480 Designing for Production	3
	IME 3520 Metal Casting	3
MN 251 & 253	IME 3540 Metrology	3
	IME 3840 Fluid Mechanics and Hydraulics	3
	Approved Elective	3
*	Area IV* Other Cultures and Civilizations	3
		<b>18</b>
<b>Semester VI - Spring (15 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
	IME 3260 Operations Planning and Control	3
MN 248 & 249	IME 3280 Quality Assurance and Control	3
	IME 3580 Computer-Aided Manufacturing	3
	Approved Elective	3
*	Area II* Humanities	3
		<b>15</b>

<b>Semester VII - Fall (17 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
	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
		<b>17</b>
<b>Semester VIII - Spring (14 Credits)</b>		
<b>Transfer Course</b>	<b>Course</b>	<b>Credits</b>
	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
		<b>14</b>
	<b>Total Credits = 128</b>	

**Notes: \* See WMU's General Requirement Guide**

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