

**WESTERN MICHIGAN UNIVERSITY**  
Department of Industrial & Manufacturing Engineering

**ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY (EGR) - Bachelor of Science Degree**

2009-2010 Catalog

Grade/ Trans.	Semester/ Course		Grade/ Trans.	Semester/ Course	
<u>SEMESTER I - FALL</u>			<u>SEMESTER V - FALL</u>		
_____	_____	<b>IME 1020 Technical Communication (Prof. 1)</b>	_____	_____	IME 2500 Plastics Properties & Processing
_____	_____	IME 1420 Engineering Graphics	_____	_____	IME 3200 Engineering Cost Analysis
_____	_____	IME 1500 Intro to Manufacturing (AREA VII)	_____	_____	IME 3480 Design for Production
_____	_____	<b>CHEM 1100 General Chemistry I (AREA VI)</b>	_____	_____	IME 4220 Engr. Teams:Theory & Pract.(AREA V)
_____	_____	<b>CHEM 1110 General Chemistry I Lab (AREA VI)</b>	_____	_____	CS 1110 Computer Science I
_____	_____	MATH 1220 Calculus I (Prof. 3)(or Math 1700)			4
		4			16
		17	<u>SEMESTER VI - SPRING</u>		
<u>SEMESTER II - SPRING</u>			_____	_____	IME 3460 Programming/Computer-Aided Design
_____	_____	IME 2540 Machining Processes	_____	_____	IME 3580 Computer-Aided Manufacturing
_____	_____	<b>MATH 1230 Calculus II (Prof. 4)(or MATH 1710)</b>	_____	_____	IME 4810 Metrology
_____	_____	PHYS 1130 General Physics I (AREA VI)	_____	_____	_____ Approved Elective
_____	_____	PHYS 1140 General Physics I Lab (AREA VI)	_____	_____	AREA I* Fine Arts
_____	_____	COM 1040 Public Speaking (Prof. 4)			3
_____	_____	AREA VIII Health & Well-Being			3
		2			15
		17	<u>SEMESTER VII - FALL</u>		
<u>SEMESTER III - FALL</u>			_____	_____	IME 4460 CAD Applications
_____	_____	IME 1440 Descriptive Geometry	_____	_____	IME 4480 Computer-Aided Analysis
_____	_____	IME 2810 Statics & Strength of Materials	_____	_____	IME 4910 Multidisciplinary Sr. Proposal (Prof. 2)
_____	_____	IME 2830 Thermodynamics	_____	_____	AREA II* Humanities
_____	_____	<b>ECE 1000 Fundamentals of Circuits &amp; Electronics</b>	_____	_____	_____ Approved Elective
_____	_____	<b>PHYS 1150 General Physics II</b>			3
_____	_____	<b>PHYS 1160 General Physics II Lab</b>			3
		1			14
		17	<u>SEMESTER VIII - SPRING</u>		
<u>SEMESTER IV - SPRING</u>			_____	_____	IME 4440 Advanced Product & Machine Design
_____	_____	IME 2460 Computer-Aided Design	_____	_____	IME 4920 Multidisciplinary Sr. Project (Prof. 2)
_____	_____	IME 2840 Fluid Mechanics & Hydraulics	_____	_____	IME 4930 Multidisciplinary Sr. Proj. Consultation
_____	_____	ECE 1010 Fundamentals of Electronics/Machines	_____	_____	_____ Approved Elective
_____	_____	STAT 2600 Elementary Stat. (Prof. 4)(or IME 2610)	_____	_____	AREA III* United States: Cultures & Issues
_____	_____	MSE 2540 Properties of Materials(or ME 2500)	_____	_____	AREA IV* Other Cultures & Civilizations
_____	_____	MSE 2550 Materials Science Lab(or ME 2500)			3
		1			15
		16			<b>TOTAL—→127</b>

\* At least one of these courses must be at the 3000-4000 level

**NOTE:**A grade of "C" or better in gate courses (indicated in italicized type) is required for enrollment in upper division courses offered by the Department of Industrial & Manufacturing Engineering.

Accepted for upper division courses:

\_\_\_\_\_  
Advisor's signature

\_\_\_\_\_  
Date

**UNIVERSITY GRADUATION REQUIREMENTS  
ENGINEERING GRAPHICS & DESIGN TECHNOLOGY CURRICULUM**

Beginning Fall 2008  
**GENERAL EDUCATION  
REQUIREMENTS**  
**TOTAL: 37 Hours Minimum**

Must include 2 courses at the 3000-4000 level  
Maximum two courses any dept.

Dept. & Number	Grade/ Transfer Hours	Credit
-------------------	--------------------------	--------

**Area I:** Fine Arts  
(3-4 credits) \_\_\_\_\_  
\_\_\_\_\_

**Area II:** Humanities  
(3-4 credits) \_\_\_\_\_  
\_\_\_\_\_

**Area III:** US Cultures  
(3-4 credits) \_\_\_\_\_  
\_\_\_\_\_

**Area IV:** Other Cultures  
(3-4 credits) \_\_\_\_\_  
\_\_\_\_\_

**Area V:** Social & Behavioral  
Sciences (3-4 credits) IME 4220 3  
\_\_\_\_\_  
\_\_\_\_\_

**Area VI:** Natural Sciences  
with lab (4-5 credits) CHEM 1100 3  
CHEM 1110 1  
PHYS 1130 4  
PHYS 1140 1

**Area VII:** Natural Science &  
Technology (3-4 credits) IME 1500 3  
\_\_\_\_\_  
\_\_\_\_\_

**Area VIII:** Health & Well  
Being (2 credits) \_\_\_\_\_  
\_\_\_\_\_

**PROFICIENCIES** (one course each)

**Prof. 1:** College Level Writing IME 1020 3  
**Prof. 3:** College Level Math MATH 1220 4  
**Prof. 4:** Develop a Proficiency MATH 1230 4  
COM 1040 3  
CS 1110 4

**TOTAL HOURS** \_\_\_\_\_

**SIGNATURES:**

Student/Date \_\_\_\_\_ Advisor/Date \_\_\_\_\_ Planned Graduation Date \_\_\_\_\_

Chairman/Date \_\_\_\_\_ College/Date \_\_\_\_\_ This form valid until \_\_\_\_\_

**STUDENT**

NAME \_\_\_\_\_

WIN # \_\_\_\_\_

CATALOG YEAR \_\_\_\_\_ DEGREE B.S.

CURRICULUM ENGR GRAPHICS & DESIGN TECH (EGR)

OPTION \_\_\_\_\_

MINOR \_\_\_\_\_

**Intellectual Skills: Hours to not count toward graduation minimum.**

Reading: Exempt \_\_\_ Course \_\_\_ Hours \_\_\_

Mathematics: Exempt \_\_\_ Course \_\_\_ Hours \_\_\_

Basic Writing: Exempt \_\_\_ Course \_\_\_ Hours \_\_\_

OTHER REQUIREMENTS

Baccalaureate Writing: IME 4910 & IME 4920 Satisfied \_\_\_

Computer Literacy: Satisfied X

60 hrs. from a 4-yr. Institution: Satisfied \_\_\_

30 hrs. from WMU required: Satisfied \_\_\_

10 of last 30 hrs. from WMU: Satisfied \_\_\_

Not over 15 hrs. Correspondence: Satisfied \_\_\_

Minimum of 122 semester hours: Satisfied \_\_\_

2.0 overall grade point average: Satisfied \_\_\_

No more than 2 grades less than C presented Satisfied \_\_\_

Total Hours Completed: \_\_\_\_\_

Minus Repeats/Skills: \_\_\_\_\_

Hours in Progress: \_\_\_\_\_

Total Hours: \_\_\_\_\_

Number Needed: \_\_\_\_\_