

Name: _____

WIN# _____

WESTERN MICHIGAN UNIVERSITY
 Department of Industrial & Manufacturing Engineering
INDUSTRIAL & ENTREPRENEURIAL ENGINEERING (IEE) – Bachelor of Science in Engineering Degree
 2008-2009 Catalog

Grade/ Trans.	Semester/ Course				Grade/ Trans.	Semester/ Course			
		<u>SEMESTER I – FALL</u>					<u>SEMESTER V – FALL</u>		
_____	_____	IME 1020	Technical Communications (Prof. 1)	3	_____	_____	IME 3010	Entrepreneurial Engineering II	3
_____	_____	IME 1420	Engineering Graphics	3	_____	_____	IME 3100	Engineering Economics	3
_____	_____	MATH 1220	(or MATH 1700) Calculus I (Prof. 4)	4	_____	_____	IME 3160	Report Preparation	3
_____	_____	CHEM 1100	General Chemistry (Area VI)	3	_____	_____	MATH 3740	Linear Algebra & Diff. Equ.	4
_____	_____	CHEM 1110	General Chemistry (Area VI)	<u>1</u>	_____	_____	Minor Elective		<u>3</u>
				14					16
		<u>SEMESTER II – SPRING</u>					<u>SEMESTER VI – SPRING</u>		
_____	_____	CS 1021	Intro Engr Comp I: Sprdsheet	1	_____	_____	IME 3110	Intro to Operations Research	3
_____	_____	CS 1023	Intro Engr Comp III: Comp Prog	1	_____	_____	IME 3300	Simulation and Modeling	3
_____	_____	IME 2010	Entrepreneurial Engineering I	3	_____	_____	IME 3420	Ergonomics	3
_____	_____	MATH 1230	(or MATH 1710) Calculus II	4	_____	_____	ME 2200	Manufacturing Processes	4
_____	_____	PHYS 2050	Mechanics and Heat (Area VI)	4	_____	_____	Minor Elective		<u>3</u>
_____	_____	PHYS 2060	Mechanics and Heat Lab (Area VI)	1					16
_____	_____	AREA I*	Fine Arts	<u>3</u>			<u>SEMESTER VII – FALL</u>		
				17	_____	_____	IME 4010	Entrepreneurial Engineering III	3
		<u>SEMSESTER III – FALL</u>			_____	_____	IME 4160	Operations Control	4
_____	_____	IME 2610	Engineering Statistics	3	_____	_____	IME 4190	Senior Project	1
_____	_____	MATH 2720	Vector and Multivariate Calculus	4	_____	_____	AREA III* United States: Culture and Issues		3
_____	_____	ME 2560	Statics	3	_____	_____	Minor Elective		3
_____	_____	PHYS 2070	Electricity and Light	4	_____	_____	Internship/International Studies ⁺		<u>3</u>
_____	_____	PHYS 2080	Electricity and Light Lab	<u>1</u>					17
				15			<u>SEMESTER VIII – SPRING</u>		
_____	_____	IME 2050	Work Design	4	_____	_____	IME 4190	Senior Design	3
_____	_____	IME 2620	Probability & Quality for Engineers	3	_____	_____	AREA IV* Other Cultures and Civilizations		3
_____	_____	ECON 2010	Microeconomics (Area V)	3	_____	_____	Minor Elective		3
_____	_____	AREA II* Humanities		3	_____	_____	Technical Elective ⁺		3
_____	_____	Minor Elective		<u>3</u>	_____	_____	Internship/International Studies ⁺		3
				16	_____	_____	AREA VIII* Health & Wellness		<u>2</u>
									17

*At least two of these courses must be at the 3000-4000 level , ⁺ Please see other side.

Total Credits----- 128

Note: A grade of "C" or better in Pre-Engineering courses (indicated in bold italicized type) is required for enrollment in upper division courses by the Department of Industrial & Manufacturing Engineering

UNIVERSITY GRADUATION REQUIREMENTS INDUSTRIAL & ENTREPRENEURIAL ENGINEERING

**Beginning FALL 2004
GENERAL EDUCATION
REQUIREMENTS
Total: 37 Hours Minimum**

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

Dept & Number	Grade Transfer	Credit Hours
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AREA I: Fine Arts _____
(3-4 credits) _____

AREA II: Humanities _____
(3-4 credits) _____

AREA III: US Culture _____
(3-4 credits) _____

AREA IV: Other Cultures _____
(3-4 credits) _____

AREA V: Social & Behavioral ECON 2010 _____ **3**
(3-4 credits) _____

AREA VI: Natural Sciences CHEM 1100, 1110 _____ **4**
With lab (4-5 credits) PHYS 2050, 2060 _____ **5**

AREA VII: Natural Sciences & Technology (3-4 credits) Waived for BSE graduates _____

AREA VIII: Health & Well _____
(2 credits) _____

Proficiencies (one course each)

Prof. 1: College Level Writing IME 1020 _____ **3**

Prof. 3: College Level Math _____

Prof. 4: Develop a Proficiency MATH 1220 _____ **4**

STUDENT NAME _____

WIN# _____

CATALOG YEAR _____ DEGREE B.S.

CURRICULUM INDUSTRIAL & ENTREPRENEURIAL ENGINEERING (IEE)

OPTION _____

MINOR _____

Intellectual Skills: Hours to not count towards graduation minimum.

Reading: Exempt _____ Course _____ Hours _____

Mathematics: Exempt _____ Course _____ Hours _____

Basic Writing: Exempt _____ Course _____ Hours _____

OTHER REQUIRMENTS

Baccalaureate Writing: IME 4190 Satisfied _____

Computer Literacy: Satisfied X

60 hrs. from a 4-yr. Institution: Satisfied _____

30 hrs. from WMU required: Satisfied _____

10 of the 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 present: Satisfied _____

Total Hours Completed _____

Minus Repeats/Skills _____

Hours in Progress _____

Total Hours _____

Number Needed _____

APPROVED ELECTIVES

REQUIREMENTS:

+Please see the IEE Advisor for a current list of approved International Studies/Technical Engineering Science electives. Note: Students can only apply 3 credit hours of approved internship towards graduation.

ADDITIONAL REQUIRMENTS FOR BSE PROGRAMS

1. Admitted to the professional engineering curriculum.
2. Completed 16 hours of humanities and social sciences
3. Completed depth and breadth requirement using:

4. Four-year catalog rule:
Catalog year _____; expires _____.
5. No more than two grades below C.

Total Hours _____

SIGNITURES:

Student/Date _____ Advisor/Date _____ Planned Graduation Date _____

Chairman/Date _____ College/Date _____ This form is valid until _____