NAME: _____

MECHANICAL ENGINEERING

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UID: _____ A.A. __ A.S. __ Post-Bac

GENERAL EDUCATION REQUIREMENTS		MAJOR REQUIREMENTS			
Fundamental Studies		ENME 202 - Computing Fundamentals for Engineers			
Academic Writing (AW) ENGL 101	3	ENME 272 - Intro to CAD			
Professional Writing (PW) ENGL 39X	3	ENME 331 - Fluid Mechanics			
Oral Communication (OC)	3	ENME 332 - Transfer Processes			
Distributive Studies		ENME 350 - Electronics & Instrumentation I			
History/Social Sciences (HS*)	3	ENME 351 - Electronics & Instrumentation II			
History/Social Sciences (HS*)	3	ENME 361 - Vibrations, Controls, & Opt I			
Humanities (HU*)	3	ENME 371 - Product Eng & Manufacturing			
Humanities (HU*)	3	ENME 382 - Intro to Materials Eng	:		
Scholarship in Practice (SP*) out of major	3	ENME 392 - Stat Methods for Prod & Proc Dev			
I-Series Courses		ENME 400 - Machine Design			
I-Series (IS*)	0/3	ENME 462 - Vibrations, Controls, & Opt II			
I-Series (IS*)	0/3	ENME 472 - Integrated Product P & Design			
Diversity		Technical Requirements			
Understanding Plural Societies (UP*)	0/3	ENME 4XX - Tech Elective**			
Understanding Plural Societies (UP*) OR	0/2	ENME 4XX - Tech Elective**			
Cultural Competency (CC*)	0/5	ENME 4XX - Tech Elective**	:		
MAJOR REQUIREMENTS		TECH 4XX - Tech Elective**			
Basic Sciences		TECH 4XX - Tech Elective**			
CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin	3/3&1				
PHYS 161 - General Physics I (NS)	3	Requirements for Graduation:			
PHYS 260 and PHYS 261 - Gen Physics II & Lab	3&1	Final 30 credits must be earned at UMD			
PHYS 270 and PHYS 271 - Gen Physics III & Lab	3&1	15 of the final 30 credits must be earned at the 300-400 level			
MATH 140 - Calculus I (MA/AR)	4	12 of the final 30 credits must be upper level major coursework			
MATH 141 - Calculus II	4	A minimum 2.00 cumulative UM GPA and satisfactory completion of all d	egree		
MATH 241 - Calculus III	4	4 requirements are required for graduation			
MATH 246 - Differential Equations	3	3 Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all			
Engineering Sciences		degree requirements, minor requirements, and undergraduate certificate requirements			
ENES 100 - Intro to Eng Design (SP) 3		(Major courses are defined as: departmental courses, basic sciences, engineering			
ENES 102 - Mechanics I	3	3 sciences, specified degree tracks, technical requirements/ technical electives and			
ENES 220 - Mechanics II 3		Professional Writing (PW)			
ENES 221 - Dynamics	3	3 A minimum of 120 credits is required to earn the degree			
ENES 232 - Thermodynamics	3				

* May satisfy more than one requirement. See www.gened.umd.edu

**See Mechanical Advisor for information about appropriate technical electives and approval. http://www.enme.umd.edu

For Degree Clearance Only			
Degree: B.S. ENME	Advisor:		
Date:	Credits/GPA:		

Mechanical Engineering Four Year Academic Plan

Name:_

UID:_____

Year 1		Fall	
Gateway requirements include:	Course	Credit	Grade
ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved	ENES 102 or ENES 100 (SP)	3	
Distributive Studies course.	MATH 140 (AR)	4	
(Directly admitted freshman must	CHEM 135	3	
successfully complete these courses and ENES 100 by 45 UM credits.)	ENGL 101 (AW)	3	
	Hist & Social Sciences (HS)*	3	
	Total	16	

	Spring		
Course	Credit	Grade	
ENES 100 (SP) or ENES 102	3		
MATH 141	4		
PHYS 161 (NS)	3		
ENME272	2		
ORAL COMM (OC)	3		
Total	15		

Year 2	Fall		
	Course	Credit	Grade
	ENES 221	3	
	ENME 202	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL	3&1	
	Hist & Social Sciences (HS)*	3	
	Total	17	

	Spring		
Course	Credit	Grade	
ENES 220	3		
ENES 232	3		
MATH 246	3		
PHYS 270 and PHYS 271	4		
Scholarship in Practice (SP)	3		
Total	16		

Year 3	Fall		
	Course	Credit	Grade
	ENME 331	3	
	ENME 350	3	
	ENME 382	3	
	ENME 392	3	
	GenEd	3	
	Total	15	

	Spring		
Course	Credit	Grade	
ENME 332 or ENME 400	3		
ENME 351	3		
ENME 361	3		
ENME 371	3		
Professional Writing (PW)	3		
Total	15		

Year 4	Fall		
	Course	Credit	Grade
	ENME 400 or ENME 332	3	
	ENME 472	3	
	Technical Elective	3	
	Technical Elective	3	
	Humanities (HU)*	3	
	Total	15	

	Spring		
Course	Credit	Grade	
ENME 462	3		
Technical Elective	3		
Technical Elective	3		
Technical Elective	3		
Humanities (HU)*	3		
Total	15		

*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies and Cultural Competence courses may also fulfill Distributive Studies categories.