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. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	Total	13	

	Spring	
Course	Credit	Grade
ENES 100 (SP) or ENES 102	3	
MATH 141	4	
PHYS 161 (NS)	3	
Hist & Social Sciences (HS)*	3	
ORAL COMM (OC)	3	
Total	16	

Year 2		Fall	
	Course	Credit	Grade
	ENES 220	3	
	ENES 221	3	
	MATH 241	4	
	MATH 206	1	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Total	15	

Spring		
Course	Credit	Grade
ENES 232	3	
ENME 272	2	
MATH 246	3	
PHYS 270 and PHYS 271	3 & 1	
Scholarship in Practice (SP)*	3	
Total	15	

Year 3		Fall	
	Course	Credit	Grade
	ENME 331	3	
	ENME 350	3	
	ENME 382	3	
	ENME 392	3	
	ENME 201 (optional)	1	
	Hist & Social Sciences (HS)*	3	
	Total	16	

Spring		
Course	Credit	Grade
ENME 332 or ENME 400	3	
ENME 351	3	
ENME 361	3	
ENME 371	3	
ENGL 393 (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.

		WECHANICAL ENGINE	EKING
UID: A.A A.S	_ Post-Bac		
GENERAL EDUCATION REQUIREMENT	·S	MAJOR REQUIREMENTS	
Fundamental Studies		ENME 272 - Intro to CAD	
Academic Writing (AW) ENGL 101	3	ENME 331 - Fluid Mechanics	
Professional Writing (PW) ENGL 393	3	ENME 332 - Transfer Processes	
Oral Communication (OC)	3	ENME 350 - Electronics & Instrumentation I	
Distributive Studies		ENME 351 - Electronics & Instrumentation II	
History/Social Sciences (HS*)	3	ENME 361 - Vibrations, Controls, & Opt I	
History/Social Sciences (HS*)	3	ENME 371 - Product Eng & Manufacturing	
Humanities (HU*)	3	ENME 382 - Intro to Materials Eng	
Humanities (HU*)	3	ENME 392 - Stat Methods for Prod & Proc Dev	
Scholarship in Practice (SP*) out of major	3	ENME 400 - Machine Design	
I-Series Courses		ENME 462 - Vibrations, Controls, & Opt II	
I-Series (IS*)	0/3	ENME 472 - Integrated Product P & Design	
I-Series (IS*)	0/3	Technical Requirements	
Diversity		ENME 4XX - Tech Elective**	
Understanding Plural Societies (UP*)	0/3	ENME 4XX - Tech Elective**	
Understanding Plural Societies (UP*) OR	0/3	ENME 4XX - Tech Elective**	
Cultural Competency (CC*)	0/3	TECH 4XX - Tech Elective**	
MAJOR REQUIREMENTS		TECH 4XX - Tech Elective**	
Basic Sciences			
CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin	3/3&1	Requirements for Graduation:	
PHYS 161 - General Physics I (NS)	3 or 4	Final 30 credits must be earned at UMD	
PHYS 260 and PHYS 261 - Gen Physics II & Lab	3 & 1	15 of the final 30 credits must be earned at the 300-400 level	
PHYS 270 and PHYS 271 - Gen Physics III & Lab	3 & 1	12 of the final 30 credits must be upper level major coursework	
MATH 140 - Calculus I (MA/AR)	4	4 A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements	
MATH 141 - Calculus II	4	are required for graduation	
MATH 206 - Intro to MATLAB	1	Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all	
MATH 241 - Calculus III	4	degree requirements, minor requirements, and undergraduate certificate requirer	nents

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MATH 246 - Differential Equations

ENES 100 - Intro to Eng Design (SP)

Engineering Sciences

ENES 102 - Mechanics I

ENES 220 - Mechanics II

ENES 221 - Dynamics ENES 232 - Thermodynamics

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

NAME:

 $[\]ensuremath{^{*}}$ 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