## **Mechancial 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 Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	ENES 102	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	Total	13	

	Spring	
Course	Credit	Grade
ENES 100 (SP)	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	3	
ENME 351	3	
ENME 361	3	
ENME 371	3	
ENGL 393 (PW)	3	
Total	15	

Year 4	Fall		
	Course	Credit	Grade
	ENME 462	3	
	ENME Tech Elective	3	
	ENME Tech Elective	3	
	Technical Elective	3	
	Humanities (HU)*	3	
	Total	15	

Spring		
Course	Credit	Grade
ENME 472	3	
ENME Tech Elective	3	
ENME Tech Elective	3	
Technical Elective	3	
Humanities (HU)*	3	
Total	15	

<sup>\*</sup>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.

NAME:		_	MECHANICAL ENGINE	<b>ERING</b>
UID:	A.A A.S F	Post-Bac		
GENERAL EDUCAT	ION REQUIREMENTS		MAJOR REQUIREMENTS	
Fundamental Studies			ENME 272 - Intro to CAD	2
Academic Writing (AW)	ENGL 101	3	ENME 331 - Fluid Mechanics	3
Professional Writing (PW)	ENGL 393	3	ENME 332 - Transfer Processes	3
Oral Communication (OC)		3	ENME 350 - Electronics & Instrumentation I	3
Distributive Studies			ENME 351 - Electronics & Instrumentation II	3
History/Social Sciences (HS*)		3	ENME 361 - Vibrations, Controls, & Opt I	3
History/Social Sciences (HS*)		3	ENME 371 - Product Eng & Manufacturing	3
Humanities (HU*)		3	ENME 382 - Intro to Materials Eng	3
Humanities (HU*)		3	ENME 392 - Stat Methods for Prod & Proc Dev	3
Scholarship in Practice (SP*)		3	ENME 462 - Vibrations, Controls, & Opt II	3
I-Series Courses			ENME 472 - Integrated Product P & Design	3
I-Series (IS*)		0/3	Technical Requirements	
I-Series (IS*)		0/3	ENME 4XX - Tech Elective**	3
Diversity			ENME 4XX - Tech Elective**	3
Understanding Plural Societies (L	JP*)	0/3	ENME 4XX - Tech Elective**	3
Understanding Plural Societies (L	JP*) OR	0/3	ENME 4XX - Tech Elective**	3
Cultural Competency (CC*)		0/3	TECH 4XX - Tech Elective**	3
	QUIREMENTS		TECH 4XX - Tech Elective**	3
Basic Sciences				
CHEM 135 - Chem for Eng		3	Requirements for Graduation:	
PHYS 161 - General Physics I (NS)		3	Final 30 credits must be earned at UMD	
PHYS 260 and PHYS 261 - Gen Ph	ysics II & Lab	3 & 1	15 of the final 30 credits must be earned at the 300-400 level	
PHYS 270 and PHYS 271 - Gen Ph	ysics III & Lab	3 & 1	12 of the final 30 credits must be upper level major coursework	
MATH 140 - Calculus I (MA/AR)		4	A minimum 2.00 cumulative UM GPA and satisfactory completion of all deg	ree 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	

<sup>\*\*</sup>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:	GPA/Credits:	

MATH 241 - Calculus III

**Engineering Sciences** 

ENES 102 - Mechanics I

ENES 220 - Mechanics II

ENES 232 - Thermodynamics

ENES 221 - Dynamics

MATH 246 - Differential Equations

ENES 100 - Intro to Eng Design (SP)

<sup>\*</sup> May satisfy more than one requirement. See www.gened.umd.edu