NAME: _____

MECHANICAL ENGINEERING

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

GENERAL EDUCATION REQ	UIREMENTS		
Fundamental Studies	1		ENES 200 or ENE
Academic Writing (AW)	ENGL 101	3	ENME 202 - Cor
Professional Writing (PW)	ENGL 39X	3	ENME 272 - Int
Oral Communication (OC)		3	ENME 331 - Flu
Mathmatics (MA)	MATH 140	4	ENME 332 - Tra
Analytic Reasoning (AR)	MATH 140	0	ENME 350 - Ele
Distributive Studies			ENME 351 - Ele
History/Social Sciences (HS*)		3	ENME 361 - Vib
History/Social Sciences (HS*)		3	ENME 371 - Pro
Humanities (HU*)	ENES/ENEE200	3	ENME 382 - Int
Humanities (HU*)		3	ENME 392 - Sta
Natural Sciences No Lab (NS)	PHYS 161	3	ENME 400 - Ma
Natural Sciences w/Lab (NL)	PHYS 260/261	4	ENME 462 - Vib
Scholarship in Practice (SP*) in major	ENES 100	3	ENME 472 - Int
Scholarship in Practice (SP*) out of major		3	Technical Requ
Big Question Courses			ENME 4XX - Teo
Big Question (SCIS*)	ENES/ENEE200	0	ENME 4XX - Teo
Big Question (SCIS*)		0/3	ENME 4XX - Teo
Diversity			ENME 4XX or T
Understanding Plural Societies (UP*)		0/3	ENME 4XX or T
Understanding Plural Societies (UP*) OR		0/3	
Cultural Competency (CC*)		0/5	Requirements
MAJOR REQUIREM	ENTS		Final 30 credits n
Basic Sciences			15 of the final 30
CHEM 135-Chem Engr OR 131 & 134 -Fun	d & Prin	3/3&	1 🔲 12 of the final 30
PHYS 161 - General Physics I (NS)		0	A minimum 2.00
PHYS 260 and PHYS 261 - Gen Physics II &	Lab	0	requirements are requ
PHYS 270 and PHYS 271 - Gen Physics III 8	k Lab	3&1	Students matricu
MATH 140 - Calculus I (MA/AR)		0	degree requirements,
MATH 141 - Calculus II		4	(Major courses are de
MATH 241 - Calculus III		4	sciences, specified deg
MATH 246 - Differential Equations		3	Professional Writing (I
Engineering Sciences			A minimum of 1
ENES 100 - Intro to Eng Design (SP)		0	
ENES 102 - Mechanics I		3	
ENES 220 - Mechanics II		3	
ENES 221 - Dynamics		3	
ENES 232 - Thermodynamics		3	
1			

MAJOR REQUIREMENTS				
ENES 200 or ENEE 200- Tech & Consequences (HU/I-Series)		0		
ENME 202 - Computing Fundamentals for Engineers		3		
ENME 272 - Intro to CAD		2		
ENME 331 - Fluid Mechanics		3		
ENME 332 - Transfer Processes		3		
ENME 350 - Electronics & Instrumentation I		3		
ENME 351 - Electronics & Instrumentation II		3		
ENME 361 - Vibrations, Controls, & Opt I		3		
ENME 371 - Product Eng & Manufacturing		3		
ENME 382 - Intro to Materials Eng		3		
ENME 392 - Stat Methods for Prod & Proc Dev		3		
ENME 400 - Machine Design		3		
ENME 462 - Vibrations, Controls, & Opt II		3		
ENME 472 - Integrated Product P & Design		3		
Technical Requirements				
ENME 4XX - Tech Elective**		3		
ENME 4XX - Tech Elective**		3		
ENME 4XX - Tech Elective**		3		
ENME 4XX or TECH 4XX**		3		
ENME 4XX or TECH 4XX**		3		

ts for Graduation:

must be earned at UMD

30 credits must be earned at the 300-400 level

30 credits must be upper level major coursework

00 cumulative UM GPA and satisfactory completion of all degree quired for graduation

culating after Fall 2012 must have a 2.0 minimum GPA for all

s, minor requirements, and undergraduate certificate requirements

lefined as: departmental courses, basic sciences, engineering egree tracks, technical requirements/ technical electives and

(PW)

120 credits is required to earn the degree

* 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

Mechanical Engineering Graduation Plan

Name:

UID:_____

Year 1		Fall	
Current Engineering	Course	Credit	Grade
Students:	ENES 102 or ENES 100 (SP)	3	
https://eng.umd.edu/servic es/academic-policies Prospective Engineering Students: https://lep.umd.edu/	MATH 140 (AR)	4	
	CHEM 135	3	
	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	
	ENEE/ENES200 (HU/SCIS)	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	Course
	ENME 331	3		ENME 332 or ENME 400
	ENME 350	3		ENME 351
	ENME 382	3		ENME 361
	ENME 392	3		ENME 371
	GenEd	3		Professional Writing (PW)
	Total	15		Tota

	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	
	Hist & Social Sciences (HS)*	3	
	Total	15	

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

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