

NAME: \_\_\_\_\_

# MECHANICAL ENGINEERING

UID: \_\_\_\_\_ \_\_ A.A. \_\_ A.S. \_\_ Post-Bac

GENERAL EDUCATION REQUIREMENTS			
<b>Fundamental Studies</b>			
Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 39X		3
Oral Communication (OC)			3
Mathmatics (MA)	MATH 140		4
Analytic Reasoning (AR)	MATH 140		0
<b>Distributive Studies</b>			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)	ENES/ENEE200		3
Humanities (HU*)			3
Natural Sciences No Lab (NS)	PHYS 161		3
Natural Sciences w/Lab (NL)	PHYS 260/261		4
Scholarship in Practice (SP*) in major	ENES 100		3
Scholarship in Practice (SP*) out of major			3
<b>Big Question Courses</b>			
Big Question (SCIS*)	ENES/ENEE200		0
Big Question (SCIS*)			0/3
<b>Diversity</b>			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
MAJOR REQUIREMENTS			
<b>Basic Sciences</b>			
CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			0
PHYS 260 and PHYS 261 - Gen Physics II & Lab			0
PHYS 270 and PHYS 271 - Gen Physics III & Lab			3 & 1
MATH 140 - Calculus I (MA/AR)			0
MATH 141 - Calculus II			4
MATH 241 - Calculus III			4
MATH 246 - Differential Equations			3
<b>Engineering Sciences</b>			
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

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
<b>Technical Requirements</b>			
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

Requirements for Graduation:	
<input type="checkbox"/>	Final 30 credits must be earned at UMD
<input type="checkbox"/>	15 of the final 30 credits must be earned at the 300-400 level
<input type="checkbox"/>	12 of the final 30 credits must be upper level major coursework
<input type="checkbox"/>	A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation
<input type="checkbox"/>	Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements
<i>(Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and Professional Writing (PW))</i>	
<input type="checkbox"/>	A minimum of 120 credits is required to earn the degree

\* May satisfy more than one requirement. See [www.gened.umd.edu](http://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 Students: <a href="https://eng.umd.edu/services/academic-policies">https://eng.umd.edu/services/academic-policies</a> Prospective Engineering Students: <a href="https://lep.umd.edu/">https://lep.umd.edu/</a>	Course	Credit	Grade
	ENES 102 or ENES 100 (SP)	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	Hist & Social Sciences (HS)*	3	
	<b>Total</b>	<b>16</b>	

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

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	
	<b>Total</b>	<b>17</b>	

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

Year 3	Fall		
	Course	Credit	Grade
	ENME 331	3	
	ENME 350	3	
	ENME 382	3	
	ENME 392	3	
	GenEd	3	
	<b>Total</b>	<b>15</b>	

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

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	
	<b>Total</b>	<b>15</b>	

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

\*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.