

GENERAL EDUCATION PROGRAM				ENGINEERING MAJOR			
<i>COMMUNICATION - 9 CrHs</i>	<i>CrHs</i>	<i>Grade</i>	<i>Trans Equiv</i>	<i>MAJOR COURSES - 41 CrHs</i>	<i>CrHs</i>	<i>Grade</i>	<i>Trans Equiv</i>
ENC 1101	3*			EGN 1006 Intro to Engr Profession	1		
ENC 1102	3*			EGN 1007 Engr Concepts and Methods	1		
SPC 1608	3			EGN 3310 Engineering Analysis-Statics	3		
<b><i>CULTURAL &amp; HISTORICAL - 9 CrHs</i></b>				EML 3217 Engineering Mechanics-Dynamics	3		
Select 2: AMH 2010, AMH 2020, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WHO 2012, WHO 2022	6*			EGN 3343 Thermodynamics	3		
Approved Cultural Foundations Course	3			EGN 3365 Struct and Prop of Materials	3		
<b><i>SOCIAL FOUNDATION - 6 CrHs</i></b>				EGN 3373 Principles of Electrical Engr	3		
ANT 2000, PSY 2012, SYG 2000	3			STA 3032 Probability & Statistics for Engrs	GEP		
ECO 2013 (preferred) <i>or</i> ECO 2023	3			EML 3034C Modeling Methods in MMAE	3		
<b><i>SCIENCE - 6 CrHs</i></b>				EML 3303C Mechanical Engr Measurements	3		
ANT 2511, BSC 1005, BSC 1050, GEO 2370, GEO 1200, MCB 1310	3			EGM 3601 Solid Mechanics	3		
PHY 2048/L Phys for Engrs & Sci I	4			EML 3701 Fluid Mechanics I	3		
<b><i>MATHEMATICAL - 6 CrHs</i></b>				EML 4142 Heat Transfer	3		
MAC 2311 Calc I	**4*			EML 4225 Introduction to Vibrations and Controls	3		
STA 3032 Prob & Stats for Engrs	3*			EML 4501C Engineering Design I	3		
<b><i>GPA Gen Ed Prog</i></b>	<b>38</b>			EML 4502C Engineering Design II	3		
<b>ENGINEERING CORE</b>				EML 3990 Career/Academic Advising I	0		
MAC 2311 Calc I	GEP**			EML 4991 Career/Academic Advising II	0		
MAC 2312 Calc II	4**			<b><i>GPA for the Major</i></b>	<b>41</b>		
MAC 2313 Calc III	4**			<b>MATERIALS SYSTEMS OPTION</b>			
MAP 2302 Differential Equations	3**			EMA 3012C Experimental Techniques in Mech & Matts	3		
CHS 1440/L Chem for Engr (preferred) or CHM 2045/L	4**			EMA 3124 Design and Selection of Materials	3		
PHY 2048/L Phys for Engr & Sci I and Lab	GEP**			EMA 4102 Thermodynamics and Kinetics of Materials	3		
PHY 2049/L Phys for Engr & Sci II and Lab	4**			EMA 4223 Fundamentals of Mechanical Behavior of Materials	3		
<b><i>GPA for the Core</i></b>	<b>19</b>			Approved Technical Electives (6)	18		
				<b><i>GPA for the Option</i></b>	<b>30</b>		

**Notes:**

\* Indicates a "C-" minimum required by the Gordon Rule

\*\* Indicates a "C or Better" minimum required in Calculus I, II, III, Differential Equations, Physics I, and Chemistry

GEP = General Education Program (These courses may also satisfy Engineering credits)

The minimum GPA for a Mechanical or Aerospace Engineering **Major** = 2.25

The minimum GPA for this Mechanical Engineering **Option** = 2.25

It is encouraged that students take the FE Exam (typically taken during Senior Year)

**Cumulative GPA and Total Credit Hours**

**128**

**Notes:**

EML 3217 Engineering Mechanics - Dynamics is now the new Dynamics course for all ME/AE students (Previously EGN 3321)

EML 4312C Feedback Control and EML 4220 Vibrations Analysis have been split into two parts: EML 4312C Part I and Part II and EML 4220 Part I and Part II. From this breakdown two new courses were created.

- EML 4312C Part I and EML 4220 Part I are now EML 4225 Introduction to Vibrations and Controls
- EML 4312C Part II and EML 4220 Part II are now EML 4313 Intermediate System Dynamics and Controls

EML 4304C Design of Thermo-Mech. Experiments is now EML 4301C Mechanical Systems Lab