

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*			EGS 1006C Introduction to the Engineering Profession	1		
ENC 1102	3*			EGN 1007C Engineering Concepts and Methods	1		
SPC 1608	3			EGN 3310 Engineering Analysis-Statics	3		
<b>CULTURAL &amp; HISTORICAL - 9 CrHs</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 Structure and Properties of Materials	3		
<b>SOCIAL FOUNDATION - 6 CrHs</b>				EGN 3373 Principles of Electrical Engineering	3		
ANT 2000, PSY 2012, SYG 2000	3			STA 3032 Probability & Statistics for Engineers	GEP		
ECO 2013 (preferred) <u>or</u> ECO 2023	3			EML 3034C Modeling Methods in MAE	3		
<b>SCIENCE - 7 CrHs</b>				EML 3303C Mechanical Engineering 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>MATHEMATICAL - 7 CrHs</b>				EML 4142 Heat Transfer	3		
MAC 2311C Calc I w/ Analytic Geometry	**4*			EML 3500 Design and Analysis of Machine Components	3		
STA 3032 Prob & Stats for Engrs	3*			EML 4225 Introduction to Vibrations and Controls	3		
<b>GPA Gen Ed Prog</b>	<b>38</b>			EML 4501C Engineering Design I	3		
<b>ENGINEERING CORE</b>				EML 4502C Engineering Design II	3		
MAC 2311C Calc I w/ Analytic Geometry	GEP**			EML 3990 Career/Academic Advising I	0		
MAC 2312 Calc II w/ Analytic Geometry	4**			EML 4991 Career/Academic Advising II	0		
MAC 2313 Calc III w/ Analytic Geometry	4**			<b>GPA for the Major</b>	<b>44</b>		
MAP 2302 Differential Equations	3**			<b>SELECT 2 of 5 Courses</b>			
CHS 1440 Principals of Chem (preferred) or CHM 2045C	4**			EML 3101 Thermodynamics of Mechanical Systems or	3		
PHY 2048C Phys for Engr & Sci I and Lab	GEP**			EML 4143 Heat Transfer II or	3		
PHY 2049C Phys for Engr & Sci II and Lab	4**			EML 4313 Intermediate Systems Dynamics and Control or	3		
<b>GPA for the Core</b>	<b>19</b>			EML 4504 Analysis and Design of Machine Components II or	3		
				EML 4703 Fluid Mechanics II	3		
				<b>Option Courses (2)</b>	<b>6</b>		
				<b>SELECT 1 of 2 Courses</b>			
				EML 4301C Mechanical Systems Lab or	3		
				EML 4306C Energy Systems Lab	3		
				<b>Lab Course (1)</b>	<b>3</b>		
				<b>Technical Electives</b>			
				Approved Technical Electives (6)	18		
				<b>GPA for the Student Selected Courses</b>	<b>27</b>		
				<b>Cumulative GPA and Total Credit Hours</b>			
					<b>128</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

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