

GENERAL EDUCATION PROGRAM				ENGINEERING MAJOR			
A. COMMUNICATION FOUNDATIONS - 9 CrHs				MAJOR COURSES - 74 CrHs			
	CrHs	Grade	Trans Equiv		CrHs	Grade	Trans Equiv
A1. ♦ ENC 1101	•3			EGS 1006C Introduction to the Engineering Profession	1		
A2. ENC 1102	•3			EGN 1007C Engineering Concepts and Methods	1		
A3. Select 1: SPC 1608, SPC 1603, COM 1000	3			EGN 3310 Engineering Analysis - Statics	3*		
B. HISTORICAL & CULTURAL - 9 CrHs				EGN 3321 Engineering Analysis - Dynamics	3*		
B1. Select 1: AMH 2010, EUH 2000, EUH 2001, ♦ HUM 2020, HUM 2210, HUM 2230, WOH 2012, WHO 2022	3			EGN 3343 Thermodynamics	3*		
B2. Select 1: ARH 2050, ARH 2051, FIL 1000, FIL 2030, LIT 2110, LIT 2120, MUH 2017, MUH 2019, ♦ MUL 2010, MUH 2016, MUL 2720, ♦ PHI 2010, REL 2300, ♦ THE 2000	3			EGN 3365 Structure and Properties of Materials	3		
				EGM 3601 Solid Mechanics	3		
B3. Select 1 Additional Course from B1 or B2	3			EGN 3373 Principles of Electrical Engineering	3		
				STA 3032 Probability & Statistics for Engineers	*GEP		
C. MATHEMATICAL FOUNDATIONS - 7 CrHs				EML 3034C Modeling Methods in MAE	3		
C1. ♦ MAC 2311C Calc I w/ Analytic Geometry	•4*			EML 3303C Mechanical Engineering Measurements	3		
C2. STA 3032 Probability & Statistics for Engineers	•3			EML 3500 Design and Analysis of Machine Components I	3		
D. SOCIAL FOUNDATION - 6 CrHs				EML 3701 Fluid Mechanics I	3		
D1. Select 1: ♦ AMH 2020, ♦ ECO 2013, ECO 2023, ♦ POS 2041	3			EML 4142 Heat Transfer I	3		
D2. Select 1: ♦ ANT 2000, ♦ PSY 2012, ♦ SYG 2000	3			EML 4225 Introduction to Vibrations and Controls	3		
E. SCIENCE FOUNDATION - 7 CrHs				EML 4501C Engineering Design I	3		
E1. ♦ PHY 2048C General Physics I using Calculus	4*			EML 4502C Engineering Design II	3		
E2. Select 1: ANT 2511, ♦ BSC 1005, BSC 1050, ♦ BSC 2010C, GEO 1200, GLY 1030, MCB 1310	3			EML 3933 Career/Academic Advising I	0		
				EML 4931 Career/Academic Advising II	0		
ENGINEERING CORE				SELECT 2 of 5 Courses			
MAC 2311C Calculus I w/ Analytic Geometry	*GEP*			EML 3101 Thermodynamics of Mechanical Systems or <i>Spring Only</i>	3		
MAC 2312 Calculus II w/ Analytic Geometry	4*			EML 4143 Heat Transfer II or <i>Fall Only</i>	3		
MAC 2313 Calculus III w/ Analytic Geometry	4*			EML 4313 Intermediate Systems Dynamics and Control or <i>Fall Only</i>	3		
MAP 2302 Differential Equations	3*			EML 4504 Design and Analysis of Machine Components II or <i>Spring Only</i>	3		
CHS 1440 Principles of Chemistry	4*			EML 4703 Fluid Mechanics II <i>Fall Only</i>	3		
PHY 2048C General Physics I using Calculus	GEP*			SELECT 1 of 2 Courses			
PHY 2049C General Physics II using Calculus	4			EML 4301C Mechanical Systems Lab or <i>Spring Only</i>	3		
				EML 4306C Energy Systems Lab <i>Spring Only</i>	3		
				Technical Electives			
				Approved Technical Electives (6 courses)	18		
				Cumulative GPA and Total Credit Hours	128		

Notes:

♦♦ A Grade of "C" (2.0) or better is required in these courses - CHS 1440, PHY 2048C, MAC 2311C, MAC 2312, MAC 2313, MAP 2302, EGN 3310, EGN 3321, and EGN 334.

♦ Indicates a "C-" minimum required by the Gordon Rule

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

Students will need to complete at least one diamond (♦) course per General Education section. If you have any questions regarding the General Education program, please speak with the FYAE Office in HPH 116

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