

Sample 4-Year Program of Study for Bachelor of Science (B.S.) in Mechanical Engineering

First Year		
Fall Semester (14 Total Credits)		
College Writing I**	ENC 1101	3
Calculus with Analytic Geometry 1	MAC 2311	4
General Chemistry I	CHM 2045	3
General Chemistry I Lab	CHM 2045L	1
Fundamentals of Engineering	EGN 1002	3
Spring Semester (14 Total Credits)		
College Writing II**	ENC 1102	3
Calculus with Analytic Geometry 2	MAC 2312	4
Physics for Engineers I	PHY 2043	3
General Physics I Lab	PHY 2048L	1
Foundations of Society and Human Behavior****		3
Second Year		
Fall Semester (14 Total Credits)		
Statics	EGN 3311	3
Physics for Engineers II	PHY 2044	3
General Physics II Lab	PHY 2049L	1
Calculus with Analytic Geometry III	MAC 2313	4
Intro to Philosophy (WAC)***	PHI 2010	3
Spring Semester (15 Total Credits)		
Engineering Math I	MAP 3305	3
Engineering Graphics	EGN 1111C	3
Thermodynamics 1	EGN 3343	3
Strength of Materials	EGN 3331	3
Foundations of Society & Human Behavior****		3
Third Year		
Fall Semester (15 Total Credits)		
Dynamics	EGN 3321	3
Electro-Mechanical Devices	EGM 4045	3
Fluid Mechanics	EML 3701	3
Computer Applications in Engr 1	EGN 2213	4
History of Civilization 1 (WAC)***	WHO 2012	3
Spring Semester (15 Total Credits)		
Heat Transfer	EML 4142	3
Dynamic Systems	EGN 4432	3
Finite Element Analysis for Engineering Design	EGM 4350	3
Computer Applications in ME 2	EML 4534	3
Foundations of Creative Expression*****		3
Summer Semester (12 Total Credits)		

Probability & Statistics for Engineers	STA 4032	3
Vibration Synthesis & Analysis	EGN 4323	3
Technical Elective	-	3
Foundations of Creative Expressions Course*	-	3
Fourth Year		
Fall Semester (15 Total Credits)		
Engineering Materials I	EGN 3365	3
Applied Thermal Fluid Engineering	EML 4127	3
Machine Design I	EML 4500	3
Engineering Design	EGN 4521C	3
Experimental Methodology	EML 3523C	3
Spring Semester (14 Total Credits)		
Machine Design II	EML 4262	3
Design Project	EML 4551	3
Mechanical Engineering Lab	EML 4730L	3
Technical Electives		5
		TOTAL 128

* This is a sample program of study based on full-time enrollment of between 14 and 15 credit hours per semester

** Courses that meet the Gordon Rule for Foundations of Written Communication

*** Foundations in Global Citizenship

**** Foundations of Society and Human Behavior

***** Foundations of Creative Expression

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