

**SAMPLE FOUR-YEAR PROGRAM OF STUDY FOR BACHELOR OF SCIENCE IN  
MECHANICAL ENGINEERING (SPRING 2026)**

**First Year, Fall (14 credits)**

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
College Writing 1*	ENC 1101	3
Calculus with Analytic Geometry 1	MAC 2311	4
General Chemistry 1	CHM 2045	3
General Chemistry 1 Lab	CHM 2045L	1
Fundamentals of Engineering	EGN 1002	3

**First Year, Spring (14 credits)**

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
College Writing 2* or equivalent	ENC 1102	3
Calculus with Analytic Geometry 2	MAC 2312	4
General Physics for Engineers 1	PHY 2048	3
General Physics 1 Lab	PHY 2048L	1
General Education Curriculum Social Science course**		3

**Second Year, Fall (14 credits)**

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
Statics	EGN 3311	3
Calculus with Analytic Geometry 3	MAC 2313	4
Engineering Graphics	EGN 1111C	3
Physics for Engineers 2	PHY 2044	3
General Physics 2 Lab	PHY 2049L	1

**Second Year, Spring (15 credits)**

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
Strength of Materials	EGN 3331	3
Engineering Thermodynamics	EGN 3343	3
Computer Applications in Engineering 1	EGN 2213	3
Engineering Mathematics 1	MAP 3305	3
General Education Curriculum Additional Enrichment course**		3

Third Year, Fall (15 credits)

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
Electro-Mechanical Devices	EGM 4045	3
Intermediate Strength of Materials	EGM 4523C	3
Fluid Mechanics	EML 3701	3
Computer Applications in Mechanical Engineering 2	EML 4534	3
General Education Curriculum Social Science course**		3

Third Year, Spring (15 credits)

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
Dynamics	EGN 3321	3
Heat Transfer	EML 4142	3
Experimental Methodology	EML 3523C	3
Probability and Statistics for Engineers	STA 4032	3
General Education Curriculum Additional Enrichment course**		3

Third Year, Summer (12 credits)

<b>Course Title</b>	<b>Course Number</b>	<b>Credits</b>
Applied Thermal Fluid Engineering	EML 4127	3

Machine Design	EML 4500	3
Engineering Materials 1	EGN 3365	3
Mechanical Engineering Laboratory	EML 4730L	3

Fourth Year, Fall (14 credits)

Course Title	Course Number	Credits
Technical Elective		3
Finite Element Analysis for Engineering Design	EGM 4350	3
Fabrication of Mechanical Engineering Systems	EML 4263C	2
RI: Engineering Design	EML 4521C	3
General Education Curriculum Humanities course**		3

Fourth Year, Spring (15 credits)

Course Title	Course Number	Credits
Dynamic Systems	EGN 4432	3
RI: Design Project	EML 4551	3
Technical Electives		6
General Education Curriculum Humanities course**		3
<b>Total</b>		<b>128</b>