

Proposed Change: To allow transfer students to opt out of EGN 1002 (Fundamentals of Engineering) and replace it with a technical elective. The proposed changes are highlighted in the following sample four-year program of study.

Sample Four-Year Program of Study for Bachelor of Science in Mechanical Engineering

First Year, Fall (14 credits)

Course Title	Course Number	Credits
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)

Course Title	Course Number	Credits
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)

Course Title	Course Number	Credits
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)

Course Title	Course Number	Credits
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)

Course Title	Course Number	Credits
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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)

Course Title	Course Number	Credits
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)

Course Title	Course Number	Credits
Applied Thermal Fluid Engineering	EML 4127	3
Machine Design	EML 4500	3

Engineering Materials 1	EGN 3365	3
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Mechanical Engineering Laboratory	EML 4730L	3
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Fourth Year, Fall (14 credits)

Course Title	Course Number	Credits
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Technical Elective		3
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Finite Element Analysis for Engineering Design	EGM 4350	3
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Fabrication of Mechanical Engineering Systems	EML 4263C	2
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RI: Engineering Design	EML 4521C	3
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General Education Curriculum Humanities course**		3
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Fourth Year, Spring (15 credits)

Course Title	Course Number	Credits
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Dynamic Systems	EGN 4432	3
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RI: Design Project	EML 4551	3
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Technical Electives		6
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General Education Curriculum Humanities course**		3
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Total		128
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* Course meets Writing Across Curriculum (College-Level Communication Skills, formerly Gordon Rule) requirements.

** Courses may be selected from the appropriate portion of the [General Education Curriculum](#).

*** For those students entering with a B.S. degree or over 60 credits who have not taken EGN1002, they may substitute an upper-level technical elective to meet this requirement.