

FIRST YEAR

FALL SEMESTER

GE B 4	AME 101L 3	MATH 125 (GE F) 4	CHEM 105aL or MASC 110L 4	ENGR 102 2
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SPRING SEMESTER

WRIT 150 4	GE A 4	MATH 126 or MATH 129 MATH 125 4	PHYS 151L (GE E) MATH 125 or 126 or 226 4	ITP 168 2
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SECOND YEAR

FALL SEMESTER

GEC 4	AME 201 MATH 125 3	MATH 226 or MATH 229 MATH 126 or MATH 129 4	PHYS 152L PHYS 151L, (MATH 226) 4	OPTIONAL ELECTIVE 3
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SPRING SEMESTER

GE B 4	AME 204 AME 201 or CE 205 3	MATH 245 MATH 226 or MATH 229 4	PHYS 153L PHYS 152L 4	WRIT 340 WRIT 150 3
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THIRD YEAR

FALL SEMESTER

AME 310 MATH 226 3	AME 301 AME 201 or CE 205 3	PTE 463 CHEM 105aL, MATH 245, PHYS 151L 3	MASC 310 3	AME 341aL PHYS 152L, MATH 126 3	OPTIONAL ELECTIVE 3
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SPRING SEMESTER

AME 302 MATH 245 3	AME 308 AME 204, (AME 301) 3	AME 309 (MATH 245) 3	PTE 464 PTE 463 3	AME 341bL AME 341aL 3	OPTIONAL ELECTIVE 2
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FOURTH YEAR

FALL SEMESTER

GEC 4	PTE 461 PTE 464 3	PTE 465 PTE 464 3	AME 408 AME 204 or CE 225 3	AME 441aL AME 341bL 3	OPTIONAL ELECTIVE 2
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SPRING SEMESTER

GE D 4	AME 331 AME 310, (AME 309 or CE 309) 3	AME 409 4	TECHNICAL ELECTIVE 4	OPTIONAL ELECTIVE 3	
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MATHEMATICS (16 UNITS)

MATH 125: Calculus I
MATH 126 or 129: Calculus II
MATH 226 or 229: Calculus III
MATH 245: Mathematics of Phys. and Engr.

PHYSICS (12 UNITS)

PHYS 151L: Mechanics and Thermodynamics
PHYS 152L: Electricity and Magnetism
PHYS 153L: Optics and Modern Physics

CHEMISTRY / MATERIALS SCIENCE (4 UNITS)

CHEM 105AL: General Chemistry
 or **MASC 110L:** Materials Science

GENERAL EDUCATION (32 UNITS)

GE A The Arts (1 Course)
GE B Humanistic Inquiry (2 Courses)
GE C Social Analysis (2 Courses)
GE D Life Sciences (1 Course)
GE E Physical Sciences (1 Course)
GE F Quantitative Reasoning (1 Course)
GE G,H Global Perspectives (2 Courses)*
GESM General Education Seminar (1 Course)*

WRITING (7 UNITS)

WRIT 150: Writing and Critical Reasoning
WRIT 340: Advanced Writing

ENGINEERING (66 UNITS)

AME 101L: Intro. to Mech. Engr. & Graphics
AME 201: Statics
AME 204: Strength of Materials
AME 301: Dynamics
AME 302: Dynamic Systems
AME 308: Comp.-Aided Analysis for Design
AME 309: Fluid Dynamics
AME 310: Engineering Thermodynamics I
AME 331: Heat Transfer
AME 341AL: Mechoptronics Laboratory I
AME 341BL: Mechoptronics Laboratory II
AME 408: Comp.-Aided Design of Mech Systems
AME 409: Senior Design Project
AME 441AL: Senior Projects Laboratory
ENGR 102: Engineering Freshman Academy
ITP 168: Introduction to MATLAB
PTE 461: Formation Evaluation
PTE 463L: Intro. to Transport Processing in Porous Media
PTE 464L: Petroleum Reservoir Engineering
PTE 465L: Drilling Technology
MASC 310: Mechanical Behavior of Materials
TECHNICAL ELECTIVE

* SPECIAL NOTES



Courses with this symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.

GE: Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See pp. 16-17 for more information and consult your advisor for detailed assistance.

OPTIONAL ELECTIVES: Consult with your academic advisor to explore optional elective courses. These courses are not required.

TECHNICAL ELECTIVES: Any upper-division course in engineering, Chemistry, Physics, and Mathematics. See major advisor for exceptions/substitutions.