

FIRST YEAR

FALL SEMESTER

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| WRIT 150 4 | AME 101 3 | MATH 125 (GE F) 4 | CHEM 105aL or MASC 110L 4 | ENGR 102 2 |
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SPRING SEMESTER

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| GEB 4 | GE A 4 | MATH 126 (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

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

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| GED 4 | AME 204 (AME 201 or CE 205) 3 | MATH 245 (MATH 226) 4 | PHYS 153L (PHYS 152L) 4 | WRIT 340 (WRIT 150) 3 |
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THIRD YEAR

FALL SEMESTER

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| AME 310 (MATH 226) 3 | AME 301 (AME 201 or CE 205) 3 | AME 308 (AME 204, (AME 301)) 3 | MASC 310 3 | AME 341aL (PHYS 152L, MATH 126) 3 | OPTIONAL ELECTIVE 3 |
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SPRING SEMESTER

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| GEB 4 | AME 302 (MATH 245) 3 | AME 309 (MATH 245) 4 | AME 331 (AME 310, (AME 209 or CE 209)) 3 | AME 341bL (AME 341aL) 3 | OPTIONAL ELECTIVE 1 |
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FOURTH YEAR

FALL SEMESTER

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| AME CORE 3 | AME CORE 3 | AME DESIGN ELECTIVE 3 | TECHNICAL ELECTIVE 3 | AME 441aL (AME 341bL) 3 | OPTIONAL ELECTIVE 3 |
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SPRING SEMESTER

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| GEC 4 | AME CORE 3 | AME CAPSTONE ELECTIVE 3 | AME CORE 3 | TECHNICAL ELECTIVE 2 | OPTIONAL ELECTIVE 3 |
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MATHEMATICS (16 UNITS)

MATH 125: Calculus I
MATH 126: Calculus II
MATH 226: 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 (67 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 441AL: Senior Projects Laboratory
AME CORE
AME DESIGN ELECTIVE
AME CAPSTONE ELECTIVE
ENGR 102: Engineering Freshman Academy
ITP 168: Introduction to MATLAB
MASC 310: Mechanical Behavior of Materials
TECHNICAL ELECTIVES

* 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.

AME CORE: Any upper-division AME course not already required.

AME CAPSTONE ELECTIVE: AME 409, 415, 423, 430, and 443

AME DESIGN ELECTIVE: AME 305, 408, 410, 415, 430 or any special topic design course.

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