

FIRST YEAR

FALL SEMESTER

BME 101 or GE B 4	WRIT 150 4	MATH 125 (GE F) 4	CHEM 105aL (GE E) 4	ENGR 102 2
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SPRING SEMESTER

BME 101 or GE B 4	GE A 4	MATH 126 or MATH 129 MATH 125 4	CHEM 105bL CHEM 105aL 4	OPTIONAL ELECTIVE 2
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SECOND YEAR

FALL SEMESTER

GEC 4	BISC 220L (GE D) 4	MATH 226 or MATH 229 MATH 126 or MATH 129 4	PHYS 151L (GE E) MATH 125 or 126 or 226 4	OPTIONAL ELECTIVE 2
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SPRING SEMESTER

AME 201 MATH 125, PHYS 151 3	BME 210 MATH 245 4	MATH 245 MATH 226 or MATH 229 4	PHYS 152L PHYS 151L, (MATH 226) 4	OPTIONAL ELECTIVE 3
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THIRD YEAR

FALL SEMESTER

EE 202L PHYS 152L, (MATH 245) 4	MASC 310 3	BME 423 MATH 245 4	AME 301 AME 201 or CE 205 3	AME 204 AME 201 or CE 205 3	OPTIONAL ELECTIVE 1
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SPRING SEMESTER

GE B 4	CHEM 322aL CHEM 105bL 4	AME 309 (MATH 245) 3	AME 308 or ITP 308 AME 204, (AME 301) 3	TECHNICAL ELECTIVE 3	OPTIONAL ELECTIVE 1
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FOURTH YEAR

FALL SEMESTER

BISC 320L CHEM 105bL 4	BME 413 PHYS 152L 4	BME 403L BISC 220L, MATH 245, (EE 202L) or 405L BME 210, EE 202L 3	BME 404 PHYS 151L, MATH 245, AME 201 3	WRIT 340 WRIT 150 3	OPTIONAL ELECTIVE 1
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SPRING SEMESTER

BME 405L BME 210, EE 202L or 403L BISC 220L, MATH 245, (EE 202L) 4	GEC 4	BME 402 BISC 220L, BME 210, MATH 245 4	BME 416 3	TECHNICAL ELECTIVE 2	OPTIONAL ELECTIVE 1
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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. I

PHYSICS (8 UNITS)

- PHYS 151L:** Mechanics and Thermodynamics
- PHYS 152L:** Electricity and Magnetism

CHEMISTRY (12 UNITS)

- CHEM 105AL:** General Chemistry
- CHEM 105BL:** General Chemistry
- CHEM 322AL:** Organic Chemistry

BIOLOGY (8 UNITS)

- BISC 220L:** Cell Biology & Physiology
- BISC 320L:** Molecular Biology

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 (63 UNITS)

- AME 201:** Statics
- AME 204:** Strength of Materials
- AME 301:** Dynamics
- AME 308:** Comp.-Aid. Analysis for Design
- or ITP 308:** Comp.-Aid. Design for Bio-Mechanical Systems
- AME 309:** Dynamics of Fluids
- BME 101:** Intro. to Biomedical Engineering
- BME 210:** Biomed. Comp. Simulation Methods
- BME 402:** Control & Comm. in Nerv. System
- BME 403L:** Physiological Systems
- BME 404:** Biomechanics
- BME 405L:** Senior Projects: Meas. and Instrument
- BME 413:** Bioengineering Signals & Systems
- BME 416:** Development and Regulation of Medical Products
- BME 423:** Statistical Methods in BME
- EE 202L:** Linear Circuits
- ENGR 102:** Engineering Freshman Academy
- MASC 310:** Materials Behavior and Processing
- 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.

TECHNICAL ELECTIVES: Five units of upper-division engineering coursework, including at least three units of 400-level BME coursework.