

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

BISC 220L (GED) 4	GE C 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

GE B 4	BME 210 (MATH 245) 4	MATH 245 MATH 226 or MATH 229 4	PHYS 152L PHYS 151L, (MATH 226) 4	OPTIONAL ELECTIVE 2
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THIRD YEAR

FALL SEMESTER

WRIT 340 WRIT 150 3	EE 202L PHYS 152L, (MATH 245) 4	BME 423 MATH 245 4	CHEM 322aL CHEM 105bL 4	BME ANCHOR COURSE 3
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SPRING SEMESTER

TECHNICAL ELECTIVE 3	BME 302L EE 202L 4	GE C 4	CHEM 322bL CHEM 322aL 4	OPTIONAL ELECTIVE 3
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FOURTH YEAR

FALL SEMESTER

TECHNICAL ELECTIVE 3	BISC 320L CHEM 105bL 4	BME 403L BISC 220L, MATH 245, (EE 202L) or 405L BME 210, EE 202L 4	BME 425 PHYS 152L 3	BME 413 PHYS 152L 4	OPTIONAL ELECTIVE 1
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SPRING SEMESTER

TECHNICAL ELECTIVE 2	BME 402 BISC 220L, BME 210, MATH 245 4	BME 405L BME 210, EE 202L, MATH 245, (EE 202L) or 403L 4	BME 410 CHEM 322aL 3	OPTIONAL ELECTIVE 5
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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 (8 UNITS)

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

CHEMISTRY (16 UNITS)

CHEM 105AL: General Chemistry
CHEM 105BL: General Chemistry
CHEM 322AL: Organic Chemistry
CHEM 322BL: 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 (55 UNITS)

BME 101: Intro. to Biomedical Engineering
BME 210: Biomed. Comp. Simulation Methods
BME 302L: Medical Electronics
BME 402: Control & Comm. in Nerv. System
BME 403L: Physiological Systems
BME 405L: Senior Projects: Meas. and Inst.
BME 410: Intro. to Biomaterials & Tissue Engr.
BME 413: Bioengineering Signals & Systems
BME 423: Statistical Methods in BME
BME 425: Intro. to Biomedical Imaging
EE 202L: Linear Circuits
ENGR 102: Engineering Freshman Academy
BME ANCHOR COURSE: BME 404 or BME 430 or BME 451 or BME 452
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: At least 8 units, taken from ONE of the following three areas of specialization: Bioelectronics/Computers : (BME 201, BME 416, BME 430, BME 451, BME 452, BME 453, CSCI 445, EE 109L, EE 209, EE 338, EE 348L, EE 352L, EE 354L, EE 454L, EE 483, ENGR 345 or ITP 308) or Biomechanics: (AME 201, AME 204, AME 301, AME 302, AME 308 or ITP 308, AME 309, BME 201, BME 404, BME 412, BME 414, BME 416, BME 453 or MASC 310) Biochemical Engineering: (BME 201, BME 412, BME 414, BME 430, BME 453, CHE 330, CHE 350, CHE 460L, CHE 489, ENGR 305, ITP 308, or MASC 310)