# BIOMEDICAL (MECHANICAL)

## FIRST SEMESTER
### FALL SEMESTER
- **BME 101 or GE B**
- **WRIT 150**
- **MATH 125 (GE F)**
- **CHEM 105aL (GE E)**
- **ENGR 102**

### SPRING SEMESTER
- **BME 101 or GE B**
- **MATH 125 or MATH 129**
- **CHEM 105BL**
- **GE A**
- **OPTIONAL ELECTIVE**

## SECOND SEMESTER
### FALL SEMESTER
- **GE B**
- **BME 402**
- **MATH 226 or MATH 229**
- **PHYS 151L (GE E)**
- **OPTIONAL ELECTIVE**

### SPRING SEMESTER
- **BISC 220L**
- **BME 210**
- **MATH 245**
- **PHYS 152L**
- **OPTIONAL ELECTIVE**

## THIRD SEMESTER
### FALL SEMESTER
- **EE 202L**
- **ITP 308**
- **BME 423**
- **CHEM 322aL**
- **AME 201**

### SPRING SEMESTER
- **GE C**
- **MASC 310**
- **AME 301**
- **AME 204**
- **TECHNICAL ELECTIVE**

## FOURTH SEMESTER
### FALL SEMESTER
- **BISC 320L**
- **BME 413**
- **BME 403L**
- **BME 404**
- **WRIT 340**

### SPRING SEMESTER
- **BME 405L**
- **BME 416**
- **GE C**
- **TECHNICAL ELECTIVE**

### 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 (52 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
- **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 302L**: Linear Circuits
- **ENGR 102**: Engineering Freshman Academy
- **MASC 310**: Materials Behavior and Processing

### SPECIAL NOTES
Courses with this symbol may be satisfied with AP, IB or A-Level exams. See page 22 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, or C, only. See page 21 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.