**UNC BIOMEDICAL ENGINEERING UNDERGRADUATE PROGRAM**

### First Years and Sophomores
- **CODA**
  - Change of Degree Application
- **MATH 231**
  - Calculus One Var. I
- **MATH 232**
  - Calculus One Var. II
- **PHYS 118**
  - Physics Mech/Relativity
- **CHEM 101/L**
  - General Chemistry I
- **ENGL 105**
  - Comp and Rhetoric
- **MATH 233**
  - Calc. Several Var.
- **MATH 383/L**
  - Differential Equations
- **CHEM 102/L**
  - General Chemistry II
- **CHEM 261**
  - Intro to Organic Chem I
- **BIOL 101/L**
  - Principles of Biology

### Sophomores
- **PHYS 119**
  - Physics E&M
- **COMP 116**
  - Intro to Scientific Prog OR Comp Methods in BME
- **BMME 201**
  - F S
- **BMME 207**
  - BME Electronics
- **BMME 205**
  - BME Mechanics
- **BMME 209**
  - Materials Science
- **BMME 298**
  - BME Design I
- **BMME 301**
  - Human Phys: Electrical
- **BMME 302**
  - Human Phys: Mech
- **BMME 398**
  - BME Design II

### Juniors
- **3 GATEWAY ELECTIVES**
  - 315 Biotransport F S
  - 325 Biochemistry F S
  - Pre-Med: CHEM 430 F S
  - 335 Biomaterials F S
  - 345 Solid Mech. F S
  - 355 Biocontrols F S
  - 365 Signals & Syst. F S
  - 375 Microcontroller F S
  - 385 Bioinstrument. F S

### Seniors
- **4 SPECIALTY ELECTIVES**
  - From one or two of the following areas:
    - Pharmacoengineering
    - Regenerative Medicine
    - Rehabilitation Eng
    - Biosignals and Imaging
    - Medical Microdevices

- **BMME 697**
  - Senior Design
- **BMME 698**
  - Senior Design
- **BMME 698* SS**

**STEM Elective**
- Extra Gateway or Specialty Elective or >300 STEM Course
  - Must be Engineering Elective if taking CHEM 430 as Gateway

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*BMME 698 has the same prerequisite courses as BMME 697 with a corequisite of 3 additional Gateway or Specialty Electives.*

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Offered at NCSU or UNC

- **F** = fall
- **S** = spring
- **S1** = Summer Session I
- **S2** = Summer Session II

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Pre-Requisite

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Co-Requisite