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
- PHYS 119
  - Physics E&M
- 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
- BMME 207
  - BME Electronics
- BMME 208
  - Comp Methods in BME or COMP 116
    - Intro to Scientific Prog
- BMME 209
  - Materials Science
- BMME 210
  - Human Phys: Electrical
- BMME 211
  - Human Phys: Mech
- BMME 212
  - Human Phys: Mechanical

Juniors
- BMME 298
  - F/S F/S
  - BME Design I
- 3 GATEWAY ELECTIVES
  - 315 Biotransport
  - 325 Biochemistry
    - Pre-Med: CHEM 430
  - 335 Biomaterials
  - 345 Solid Mech.
  - 355 Biocontrols
  - 365 Signals & Syst.
  - 375 Microcontroller
  - 385 Bioinstrument.

Seniors
- 4 SPECIALTY ELECTIVES
  - From one or two of the following areas:
    - Pharmacoengineering
    - Regenerative Medicine
    - Rehabilitation Eng
    - Biosignals and Imaging
    - Medical Microdevices
- BMME 398
  - F/S F/S
  - BME Design II
- BMME 697
  - Senior Design
- BMME 698*
  - Senior Design

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

Offered at NCSU or UNC
F = fall
S = spring
U1 = Summer Session I
U2 = Summer Session II
Pre-Requisite
Co-Requisite
Credit Hours

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