

# NCSU BIOMEDICAL ENGINEERING UNDERGRADUATE PROGRAM

## First Years and Sophomores

## Sophomores

## Juniors

## Seniors

### CODA

Change of Degree Application

### Non-CODA

**BME 298** <sup>F/S F/S</sup>  
BME Design I

### 3 GATEWAY ELECTIVES

315 Biotransport <sup>F S</sup>  
325 Biochemistry <sup>F S</sup>  
*Pre-Med: CHEM 430*  
335 Biomaterials <sup>F S</sup>  
345 Solid Mech. <sup>F S</sup>  
355 Biocontrols <sup>F S</sup>  
365 Signals & Syst. <sup>F S</sup>  
375 Microcontroller <sup>F S</sup>  
385 Bioinstrument. <sup>F S</sup>

### 4 SPECIALTY ELECTIVES

From one or two of the following areas:

Pharmacoengineering  
Regenerative Medicine  
Rehabilitation Eng  
Biosignals and Imaging  
Medical Microdevices

### PY 205/206

Physics Mechanics

### PY 208/209

Physics E&M

### BME 207

BME Electronics <sup>S F</sup>

### CSC 113

Intro to Computing  
MATLAB  
OR  
**BME 201** <sup>F S1</sup>  
Comp Methods in BME

### BME 398

BME Design II <sup>F/S F/S</sup>

### BME 451

Senior Design <sup>F F</sup>

### CH 101/102

General Chemistry I

### CH 201/202

General Chemistry II

### BME 205

BME Mechanics <sup>F/S F/S2</sup>

### BME 301

Human Phys: Electrical <sup>F S</sup>

### BME 452\*

Senior Design <sup>S S</sup>

### ENG 101

Acad Writing & Research

### CH 221/222

Organic Chemistry I

### BME 209

Materials Science <sup>F/S S</sup>

### BME 302

Human Phys: Mech <sup>S F</sup>

### E 101

Intro Engineering

### BIO 183

Introductory Biology

### STEM Elective

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

### E 102

Engr 21st Century

### E 115

Computing Environments

Offered at **NCSU** or **UNC**

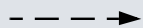
F = fall

S = spring

S1 = Summer Session I



Pre-Requisite



Co-Requisite

**\*BMME 452** has the same prerequisite courses as BMME 451 with a corequisite of 3 additional Gateway or Specialty Electives.