**Undergraduate Biomedical Engineering Curriculum**

**Degree Audit**

|  |  |
| --- | --- |
| **First Name** Type here. | **Last Name** Type here. |
| **UNC PID** Type here. |
| **Email** Type here. |
| **Classification** | [ ]  First Year | [ ]  Sophomore | [ ]  Junior | [ ]  Senior |
| **Expected Graduation Year** Type here. | **and Semester** | [ ]  Spring | [ ]  Fall | [ ]  Summer |
| **BME Specialization** Select. | **Optional 2nd BME Specialization** Select. |
| **Second Major** Type here. | **Minor(s)** Type here. |
| **Pre-Health?** [ ] Yes [ ]  No*(Pre-Med, Pre-Dental, etc...)* | **Study Abroad or Co-Ops?** [ ] Yes [ ]  No**If yes, semester?** Type here. |
| *Please meet with an Advisor as early as possible.* |

**Next Semester’s Plan:** List the courses you plan to enroll in **at both campuses** (UNC + NC State) for the coming semester.

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| **Schedule Plan for:** [ ]  **Fall** [ ]  **Spring Year** Type here. |  | **Schedule Plan for: Summer I** |
| **Course** | **Credits** |  | **Course** | **Credits** |
| Type here. | Type here. |  | Type here. | Type here. |
| Type here. | Type here. |  | Type here. | Type here. |
| Type here. | Type here. |  | Type here. | Type here. |
| Type here. | Type here. |  | **Schedule Plan for: Summer II** |
| Type here. | Type here. |  | Type here. | Type here. |
| Type here. | Type here. |  | Type here. | Type here. |
| Type here. | Type here. |  | Type here. | Type here. |

**NC State Courses:** Complete the table for any classes you plan to take at NC State for the coming semester. [Click here](https://drive.google.com/file/d/1RWXUoZwlelDLoV6-3dJjtclHtBFWUBQa/view?usp=drive_link) for information on enrolling in NC State courses.

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| **NC State ID #** Type here. |
| **Course** | **Section #** | **Approved as a Substitute for** | **Semester** |
| Type here. | Type here. | Type here. | Select. |
| Type here. | Type here. | Type here. | Select. |
| Type here. | Type here. | Type here. | Select. |
| Type here. | Type here. | Type here. | Select. |

I understand what courses I must take to complete the requirements for a BME degree and will register for the courses listed for the next semester. I will discuss my degree audit and progress towards a degree with an advisor. If for any reason my plan for next semester changes, I will amend and resubmit my Degree Audit to my advisor.

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| Type here. | Click here. | Type here. | Click here. |
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| Student’s Signature | Date | Adviser’s Signature | Date |

**Four-Year Course Plan:** Indicate completed courses and planned courses. Guidance is available on the [BME Four-Year Flowchart](https://drive.google.com/file/d/1AYSjaBIs7VMAiEMguzDHh67meO5IjV7Y/view?usp=drive_link) and at the hyperlinks included below.

**First Year**

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| **Course** | **Completed****or Currently Enrolled** | **Or Planned:** |
|  |  | **Semester** | **Year** |
| MATH  | 231  | Calculus of Functions of One Variable |[ ]  Select. | Type here. |
| MATH  | 232  | Calculus of Functions of One Variable II |[ ]  Select. | Type here. |
| PHYS  | 118  | Mechanics/Introductory Calculus-based Mechanics and Relativity |[ ]  Select. | Type here. |
| CHEM  | 101 & 101L  | General Descriptive Chemistry I and Quantitative Chemistry Lab I |[ ]  Select. | Type here. |
| ENGL  | 105 or 105I  | Writing at the Research University |[ ]  Select. | Type here. |
| BIOL  | 101 & 101L  | Principles of Biology with Lab1 |[ ]  Select. | Type here. |
| Type here. | Type here. | Global Language Level 32 |[ ]  Select. | Type here. |

1. BIOL 101 & 101L can be delayed to Sophomore Year if needed.

2. Students are strongly encouraged to begin Global Language during their first year, although it can be delayed if needed.

**Sophomore Year**

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| **Course** | **Completed** **or Currently Enrolled** | **Or Planned:** |
|  |  | **Semester** | **Year** |
| BMME | 298 | BME Design and Manufacturing I |[ ]  Select. | Type here. |
| COMP | 116 | Introduction to Scientific Programming *BMME 201 MATLAB for Scientists and Engineers, offered in Summer Session I, may substitute for this class.* |[ ]  Select. | Type here. |
| BMME | 205 (160/215L) | BME Mechanics |[ ]  Fall UNC | Type here. |
| BMME | 209 (150/219L) | BME Material Science |[ ]  Spring UNC | Type here. |
| CHEM | 102/102L | General Descriptive Chem and Lab |[ ]  Select. | Type here. |
| CHEM | 261 | Intro to Organic Chemistry I |[ ]  Select. | Type here. |
| MATH | 233 | Calculus of Functions of Several Variables |[ ]  Select. | Type here. |
| MATH | 383/383L | Linear Algebra and Differential Equations |[ ]  Select. | Type here. |
| PHYS | 119 | Electromagnetism and Optics |[ ]  Select. | Type here. |

**Junior Year (**[**Gateway**](https://drive.google.com/file/d/1YIQB-Y2dfMAA5C6aVCZknci7MhuIV-Ye/view?usp=drive_link) **and** [**STEM Elective**](https://docs.google.com/spreadsheets/d/1cm9VQQeoFE7yuMmbzJl1NICmR-P3J_iQ-zkjrI6XETQ/edit?usp=drive_link) **Guidance)**

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| **Course** | **Completed** **or Currently Enrolled** | **Or Planned:** |
|  |  | **Semester** | **Year** |
| BMME | 207 | Fundamentals of Biomedical Electronics |[ ]  Fall UNC | Type here. |
| BMME | 398 | BME Design and Manufacturing II  |[ ]  Select. | Type here. |
| BMME | 301 | Human Physiology: Electrical Analysis |[ ]  Spring UNC | Type here. |
| BMME | 302 | Human Physiology: Mechanical Analysis |[ ]  Fall UNC | Type here. |
| Type here. | Type here. | Gateway Elective 13 |[ ]  Select. | Type here. |
| Type here. | Type here. | Gateway Elective 2 |[ ]  Select. | Type here. |
| Type here. | Type here. | Gateway Elective 3 |[ ]  Select. | Type here. |
| Type here. | Type here. | STEM Elective4 |[ ]  Select. | Type here. |

3. Gateway Electives should be chosen to satisfy the prerequisites of Specialty Electives of interest.

4. Choose a fourth Gateway, a fifth Specialty Elective, or another 300-level or higher science or engineering course; get permission if course is not on the [list](https://docs.google.com/spreadsheets/d/1cm9VQQeoFE7yuMmbzJl1NICmR-P3J_iQ-zkjrI6XETQ/edit#gid=0). If using CHEM 430 as one of the three Gateway Electives, the STEM elective must be an Engineering class.

**Senior Year (**[**Specialty Elective**](https://drive.google.com/file/d/1YHgZ-h8amKxWtFwN0LrW95KIGh6cj45k/view?usp=drive_link) **Guidance)**

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| **Course** | **Area** | **Completed** **or Currently Enrolled** | **Or Planned:** |
|  |  |  | **Semester** | **Year** |
| BMME | 697 | Senior Design Project |  |[ ]  **FALL** | Type here. |
| BMME | 698 | Senior Design Project |  |[ ]  **SPRING** | Type here. |
| Type here. | Type here. | Specialty Elective 15 | Select. |[ ]  Select. | Type here. |
| Type here. | Type here. | Specialty Elective 2 | Select. |[ ]  Select. | Type here. |
| Type here. | Type here. | Specialty Elective 3 | Select. |[ ]  Select. | Type here. |
| Type here. | Type here. | Specialty Elective 4 | Select. |[ ]  Select. | Type here. |

5. Specialty Electives must come from one or two of the Specialization Areas.

**General Education Requirements**

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| **Approaches6** | **Completed or Enrolled** |
| Historical Analysis (HS)7 |[ ]
| Social and Behavioral Science (SS, HS)7 |[ ]
| Social and Behavioral Science (SS, HS)7 |[ ]
| Philosophical and Moral Reasoning (PH) |[ ]
| Literary Arts (LA) |[ ]
| Visual and Performing Arts (VP) |[ ]

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| **Connections6,8** | **Completed or Enrolled** |
| US Diversity (US) |[ ]
| North Atlantic World (NA)  |[ ]
| Beyond the North Atlantic World (BN) |[ ]
| World Before 1750 (WB) |[ ]
| Global Issues (GL) |[ ]

6. Other Approaches and Connections requirements are met by required courses.7. Social and Behavioral Science or Historical Analysis classes must come from two different departments. 8. Approaches classes must also meet the following Connections requirements |
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| **Foundations** | **Completed or Enrolled** |
| Lifetime Fitness (LFIT) |[ ]

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