**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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.

|  |  |  |  |
| --- | --- | --- | --- |
| **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.

|  |  |  |  |
| --- | --- | --- | --- |
| 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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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. |
| IDST | 101 | College Thriving |  | Select. | Type here. |
| Type here. | Type here. | First-Year Seminar or First-Year Launch2 |  | Select. | Type here. |
| Type here. | Type here. | Triple-I and Data Literacy |  | Select. | Type here. |
| Type here. | Type here. | Global Language Level 33 |  | Select. | Type here. |

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

2. FYS/FYL should double count for a Focus Capacity.

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

**Sophomore Year**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 14 |  | 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 Elective5 |  | Select. | Type here. |

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

5. 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)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 16 | 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. |

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

**General Education Requirements**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Focus Capacities7** | **Completed or Currently Enrolled** | | Aesthetic and Interpretive Analysis |  | | Engagement with the Human Past |  | | Ethical & Civic Values |  | | Global Understanding and Engagement |  | | Power Difference and Inequality |  | | |  |  | | --- | --- | | **Reflection and Integration7** | **Completed or Currently Enrolled** | | High Impact Experience |  | | Lifetime Fitness |  | | Campus Life Experience |  | |

7. Other Focus Capacities and Reflection and Integration requirements are met by required courses.