**STUDENT INFORMATION**

|  |  |
| --- | --- |
| **Name:** | **NAU ID:** |
| **NAU E-mail Address:** | **Phone Number:** |
| **Term of Admission:** | **Expected Graduation Term/Year:** |
| **Advisor:** | **Required Credits for Degree Program: 60** |

# **Bioengineering Foundation Courses (11 units required):**

* ME 563, ME 573, BIO 540 (9 units required)
* BIO 698 (1 unit required)
* Challenges of Interdisciplinarity (1 unit required)**:** Select ONE course from the following courses: BIO 698 or ME 698.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
| ME 563 | Biomechanical Engineering  *Pre-req: ME 252, ME 340, MAT 239, and CENE 253* |  |  |  |  |  |  |
| ME 573 | Biomaterials  *Pre-req: ME 252, ME 340, MAT 239, and CENE 253* |  |  |  |  |  |  |
| BIO 540 | Comparative Animal Physiology  *Pre-req: BIO 221 and (GLG 102 or GLG 225)* |  |  |  |  |  |  |
| BIO 698 | Graduate Seminar- Scientific Writing |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**II. Interdisciplinary Emphases:**  Please select ONE emphasis:

* **Bioengineering Informatics (minimum of 12 units required):** Courses offered by the Informatics and Computing Program
* **Bioengineering and Biophysics (minimum of 12 units required):** Courses offered by the Department of Physics and Astronomy

**Chosen emphasis:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**III. Electives (22 units required):** Select courses from the following areas in consultation with your advisor.

* **Biology Electives:** Select courses from the following courses in consultation with your advisor: BIO 514, BIO 535, BIO 541, BIO 542, BIO 545, BIO 587, BIO 682, BIO 685, or BIO 599 (Immunology, Pathology, Human Gross Anatomy, Human Physiology, Human Tissue Biology, or Professional Grant Writing).
* **Engineering Electives:** Select courses from the following courses in consultation with your advisor: EGR 502, ME 520, ME 554, ME 560, ME 561, ME 575, ME 599, or ME 685.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Other coursework/electives in addition to the degree requirements:** As a doctoral student in the Bioengineering program, you are encouraged to pursue coursework related to business foundations and entrepreneurship in the Franke College of Business. You will also be encouraged to obtain an internship with a local or regional industrial partner as part of your graduate training.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**IV. Dissertation (15 units required):** Select either BIO 799 or ME 799.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**ADDITIONAL INFORMATION**

This Program of Study documents your progress on your academic requirements for the degree and catalog year listed above. For Department of Defense-related requirements, it serves as the evaluated and approved educational plan.

In addition to all University and Graduate College policies, procedures, and requirements, graduate students must also adhere to the academic requirements, policies, procedures, and criteria outlined by their program’s Graduate Student Handbook.

**Students:**

You must secure official approval by your advisor and Department Chair/Director before submitting the final Program of Study.

By signing or entering your name below, you agree to the following statement:

*“Students are responsible for complete knowledge of Academic Catalog requirements in their degree plan for their catalog year and adhering to all policies in the Academic Catalog.”*

**Advisors and Chairs/Directors:**

Please indicate approval of the curriculum on the Program of Study by placing your signature (formal electronic signatures are permitted) in the space provided.

|  |  |
| --- | --- |
| **Student:** | **Date:** |
| **Advisor:** | **Date:** |
| **Chair:** | **Date:** |

**\*\*Transfer/Previous Graduate Degree/Internal Transfer/Accelerated (T/P/I/A)** – Must have Advisor approval

Transfer T = Course transferred from another university

Previous Graduate Degree P = Course taken at NAU from previous graduate degree

Internal Transfer I = Graduate level course taken as undergraduate; Not applied to undergraduate degree

Accelerated Program “Dual-use” A = Courses completed during the undergraduate career and used to satisfy both the Bachelors and Master’s degree requirements. ONLY for designated Accelerated students.