**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 (12 units required):**

* Bioengineering (6 units) Select two from: BE 563 or ME 563, BE 573 or ME 573, ME 599 – Cardiovascular Fluid Mechanics
* Grand Writing (1-2 units) Select one from: BE 537 or BIO 537, BIO 698 or ME 698 – Scientific Writing
* Seminar (4-5 units)**:** Select from the following: BIO 698 – Challenges of Interdisciplinarity, BIO 698 or ME 698 – Graduate Seminar

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

**II. Electives (33 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 506, BIO 514, BIO 535, BIO 537, BIO 542, BIO 545, BIO 587, BIO 608, BIO 685, or BIO 599 (Immunology, Pathology, Human Physiology, Human Tissue Biology, or Professional Grant Writing).
* **Mechanical Engineering Electives:** Select courses from the following courses in consultation with your advisor: ME 520, ME 523, ME 525, ME 530, ME 542, ME 554, ME 556, ME 560, ME 561, ME 563, ME 575, ME 580, ME 599, ME 608, ME 685, or ME 697

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 take courses in other disciplines, including but not limited to, courses offered in the Informatics and Computing Program, the Applied Physics and Materials Science Program, Mathematics, and other branches of engineering.

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

**IV. Dissertation (15 units required):** BE 799

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

**ADDITIONAL INFORMATION**

Of the 33 units of electives, no more than 12 units of individualized study (608 / 685 / 697) may be used towards this degree. ME 608, BIO 608, BE 608 is encouraged so that students obtain an internship with a local or regional industrial partner as part of your graduate training. However, no more than 3 units of 608 may be used towards the degree.

All electives must be approved by your advisor; dissertation / thesis units (799 / 699) may not be used towards fulfillment of any elective requirements.

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 digital 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.