**STUDENT INFORMATION**

|  |  |
| --- | --- |
| **Student’s Name:** | **NAU ID:** |
| **E-mail Address:**      @nau.edu | **Phone Number:** |
| **Enrollment Term:**        (ex. Fall 2016) | **Expected Graduation:**       (ex. Spring 2020) |
| **Advisor:** | |
| **Total Required Credits for this Degree Program:** **60** | |
| **This is the:**  **Initial** (upon admission)  **Final** (submitted with Graduation Application) **Program of Study** | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **\*** | **Course No.** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Hours** | **Grade** | **T/E/P\*\*** |
| 1. **Core Requirements (minimum of 42 units required)** | | | | | | | | |
| * 1. **Informatics Foundations (12 units required)** | | | | | | | | |
| \* | INF 501 | Research Methods in Informatics and Computing |  |  |  |  |  |  |
| \* | INF 502 | Software Development Methodologies |  |  |  |  |  |  |
| \* | INF 503 | Large-scale Data Structures and Organization |  |  |  |  |  |  |
| \* | INF 504 | Data Mining and Machine Learning |  |  |  |  |  |  |
| 1. **Professional and Communication (3 units required)** | | | | | | | | |
| \* | INF 601 | Professional and Career Development |  |  |  |  |  |  |
| \* | INF 602 | Professional Communication |  |  |  |  |  |  |
| \* | INF 603 | Proposal and Grant Preparation |  |  |  |  |  |  |
| 1. **Statistical Methods (9 units required)** | | | | | | | | |
| \* | STA 570 | Statistical Methods I |  |  |  |  |  |  |
| \* | STA 571 | Statistical Methods II  *Pre-req: STA 570* |  |  |  |  |  |  |
| \* | STA 572 | Multivariate Statistical Methods  *Pre-req: STA 570* |  |  |  |  |  |  |
| 1. **Research Rotation (3 units required)** | | | | | | | | |
| \* | INF 684 | Interdisciplinary Research Rotation |  |  |  |  |  |  |
| 1. **Dissertation (minimum of 15 units required)** | | | | | | | | |
| \* | INF 799 | Dissertation |  |  |  |  |  |  |

Student’s Name:       NAU ID:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **\*** | | **Course No.** | **Course Title** | | **Replacement Course** | | **Semester** | | **Year** | | **Hours** | | **Grade** | | **T/E/P\*\*** | |
| 1. **Emphasis Requirements (minimum of 18 units required):** Select one emphasis from the following emphases. | | | | | | | | | | | | | | | | |
| * 1. **Health and Bioinformatics Emphasis** | | | | | | | | | | | | | | | | |
| * + 1. **Select coursework from the following courses (12 units required):** INF 610, INF 611, or INF 612. Each seminar may be repeated if each repeat covers a different topic. | | | | | | | | | | | | | | | | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
| 1. **Seminars or Other Graduate-level Coursework (6 units required):** Select additional coursework from other INF-prefixed seminars or graduate-level coursework at NAU, as guided by research needs and advisor input. | | | | | | | | | | | | | | | | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
| \* | |  |  | |  | |  | |  | |  | |  | |  | |
|  | |  |  | |  | |  | |  | |  | |  | |  | |
| * 1. **Ecological and Environmental Informatics Emphasis** | | | | | | | | | | | | | | | | | |
| * + 1. **Select coursework from the following courses (12 units required):** INF 620, INF 621, or INF 622. Each seminar may be repeated if each repeat covers a different topic. | | | | | | | | | | | | | | | | | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| 1. **Seminars or Other Graduate-level Coursework (6 units required):** Select additional coursework from other INF-prefixed seminars or graduate-level coursework at NAU, as guided by research needs and advisor input. | | | | | | | | | | | | | | | | | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
|  |  | | |  | |  | |  | |  | |  | |  | |  | |
| * 1. **Cyber and Software Systems Emphasis** | | | | | | | | | | | | | | | | | |
| * + 1. **Select coursework from the following courses (12 units required):** INF 630, INF 631, INF 632, or INF 633. Each seminar may be repeated if each repeat covers a different topic. | | | | | | | | | | | | | | | | | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |
| \* |  | | |  | |  | |  | |  | |  | |  | |  | |

Student’s Name:       NAU ID:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **\*** | **Course No.** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Hours** | **Grade** | **T/E/P\*\*** |
| 1. **Seminars or Other Graduate-level Coursework (6 units required):** Select additional coursework from other INF-prefixed seminars or graduate-level coursework at NAU, as guided by research needs and advisor input. | | | | | | | | |
| \* |  |  |  |  |  |  |  |  |
| \* |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| * 1. **Bioengineering Informatics Emphasis** | | | | | | | | |
| * + 1. **Bioengineering Foundations (10 units required)** | | | | | | | | |
| \* | 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)* |  |  |  |  |  |  |
| 1. **Select ONE course from the following courses (1 units required):** BIO 698 or ME 698. | | | | | | | | |
| \* |  |  |  |  |  |  |  |  |
| 1. **Seminars or Other Graduate-level Coursework (8 units required):** Select additional coursework from other INF-prefixed seminars or graduate-level coursework at NAU, as guided by research needs and advisor input. | | | | | | | | |
| \* |  |  |  |  |  |  |  |  |
| \* |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

**Additional Requirements**

In addition, students must successfully complete the following requirements:

**Comprehensive qualifying examination by the end of the fourth term**

|  |  |
| --- | --- |
| **Date Held:** |  |
| **Result (pass or fail):** |  |

**Advancement to candidacy examination by the end of the seventh term**

|  |  |
| --- | --- |
| **Date Held:** |  |
| **Result (pass or fail):** |  |

**Dissertation Defense**

|  |  |
| --- | --- |
| **Date Held:** |  |
| **Result (pass or fail):** |  |

Student’s Name:       NAU ID:

**ADDITIONAL INFORMATION**

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 (electronic signatures are permitted) in the space provided.

|  |  |
| --- | --- |
| **Student:** | **Date:** |
| **Advisor:** | **Date:** |
| **Chair** (required for Final)**:** | **Date:** |

**\*\*Transfer/Equivalent/Previous Graduate Degree** – Must have Advisor approval

Transfer T = Course transferred from another university

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

Equivalent E = Course taken at NAU in place of required course

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

**Transfer Credit Example:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **\*** | **Course No.** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Hours** | **Grade** | **T/E/P\*\*** |
|  | **ABC 123** | **Fundamentals of English** | **ASU 456** | **Fall** | **2012** | **3** | **A** | **T/ASU** |