**STUDENT INFORMATION**

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| **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** | |

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| **\*** | **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 |  |  |  |  |  |  |

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| **\*** | | **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. | | | | | | | | | | | | | | | | |
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| 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. | | | | | | | | | | | | | | | | |
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| * 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. | | | | | | | | | | | | | | | | | |
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| 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. | | | | | | | | | | | | | | | | | |
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| * 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. | | | | | | | | | | | | | | | | | |
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| 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. | | | | | | | | |
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| * 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. | | | | | | | | |
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| 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. | | | | | | | | |
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**Additional Requirements**

In addition, students must successfully complete the following requirements:

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

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

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

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

**Dissertation Defense**

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

Student’s Name:       NAU ID:

**Signatures**

By signing 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.”*

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| **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:**

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|  | **ABC 123** | **Fundamentals of English** | **ASU 456** | **Fall** | **2012** | **3** | **A** | **T/ASU** |