**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. **Required Courses (5 units required)**
 |
| \* | ENV 555 | The Environmental Science-Policy Interface |       |       |       |       |        |       |
| \* | EES 605 | Regional Topics in Earth and Environmental Science and Policy |       |       |       |       |        |       |
| \* | EES 606 | Research Methods in Earth and Environmental Science |       |       |       |       |        |       |
| 1. **Professional Experience (6 units required):** Any experience that significantly broadens knowledge and skills, and advances the student’s career objectives. The requirement can be satisfied through regular coursework or through individualized study that expands the student’s skills in an area outside his/her dissertation but in a professional area related to his/her career goals, or research experiences within the context of the dissertation. See your advisor.
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| **\*** | **Course No.** | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Hours** | **Grade** | **T/E/P\*\*** |
| 1. **Emphasis Area and Dissertation Topic (30 units required):** Select courses specific to area of emphasis and dissertation topic with at least 6 units in the area of emphasis chosen with approval of the student’s dissertation committee.
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| 1. **[ ]  Climate and Environmental Change Emphasis:** Graduate-level courses with EES, ENV, BIO, or FOR prefixes, or other courses that focus on climate or environmental change.
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| 1. **[ ]  Earth and Planetary Systems Emphasis:** Graduate-level courses with GLG prefix, or other courses that focus on earth or planetary systems.
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| 1. **[ ]  Engineering Sustainable Systems Emphasis:** Graduate-level courses with CENE or ME prefixes, or other courses that focus on engineering sustainable systems.
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| 1. **Research Competency (3 units required):** one graduate level course with significant content in statistics and/or science/engineering research methods, as meeting this requirement.
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| 1. **Seminar Courses (4 units required):** Selected by student and committee (698 course suffix)
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| 1. **Dissertation (15 units required):** For research, writing, and oral defense of an approved dissertation. Students can only count 15 units of dissertation credit toward the degree; however, students may end up taking additional units because students must enroll for it each term while working on the dissertation.
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| \* | EES 779 | Dissertation |       |       |       |       |        |       |

Student’s Name:       NAU ID:

**ADDITIONAL REQUIREMENTS**

You may have no more than 6 units of 400-level courses. These 400-level courses cannot have been used to satisfy the requirements for any previous degree program(s). You must get your dissertation committee's approval for any courses taken outside of NAU.

Be aware that some courses may have prerequisites that you must also take. For prerequisite information click on the course or see your advisor.

**RESEARCH REQUIREMENTS**
In addition to completing 45 units of coursework, you must demonstrate your independence, research skill, and experience in a discipline within earth sciences and environmental sustainability by choosing a problem and research area in consultation with your dissertation committee and then satisfactorily completing a dissertation.

Your dissertation research meets our standards when it is soundly based in the theoretical context of the subject, proceeds with a sound design that gives due attention to statistical adequacy, and concludes with findings and inferences set forth within an appropriate theoretical context. Your dissertation must demonstrate that you have mastered your field of specialization, carried out independent scholarly work, and contributed significant new knowledge. You must pass an oral defense of your dissertation.

**COMPREHENSIVE EXAM**
We also require that you demonstrate written and oral communication skills in English at a level that will allow you to effectively communicate your ideas and knowledge to a wide range of audiences. Part of this demonstration involves comprehensive oral exams by the end of your 4th semester designed to establish your competence in a breadth and depth of subjects within your emphasis area and the larger field of earth sciences and environmental sustainability. If the comprehensive exam is unlikely to be completed by the fifth semester following admission to the program, student should submit, in writing, and explanation for the longer timeline. Exemptions to the five-semester timeline that are requested following the first committee meeting will only be granted in extenuating circumstances.

**RESEARCH COMPETENCY REQUIREMENT**
NAU policy for PhD programs includes a research competency requirement that must be satisfied before a student can be admitted to candidacy. This interdisciplinary doctoral program recognizes [ENV 555](http://catalog.nau.edu/Courses/course?courseId=002933&catalogYear=1415), [EES 605](http://catalog.nau.edu/Courses/course?courseId=003801&catalogYear=1415), and [EES 606](http://catalog.nau.edu/Courses/course?courseId=003802&catalogYear=1415), plus one graduate level course with significant content in statistics and/or science/engineering research methods, as meeting this requirement.

**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.

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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