**STUDENT INFORMATION**

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| **Name:**       | **NAU ID:**        |
| **NAU E-mail Address:**        | **Phone Number:**       |
| **Term of Admission:**         | **Expected Graduation Term/Year:**        |
| **Advisor:**       | **Required Credits for Degree Program: 63** |

**I. Forestry Common Requirements (23 units required)**

* FOR 505, FOR 690, FOR 692, FOR 693 (8 units)
* Select from CCJ 614, SOC 655, STA 570, STA 571, STA 572, STA 574, STA 676, or other graduate-level courses with significant content in statistics (6 units)
* Select Forest Science coursework and/or electives, with recommendation from your research committee (9 units)

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
| FOR 505 | Forestry Seminar Series |       |       |       |       |       |       |
| FOR 690 | Research Methods |       |       |       |       |       |       |
| FOR 692 | Proseminar I |       |       |       |       |       |       |
| FOR 693 | Teaching Practicum |       |       |       |       |       |       |
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**II. Concentration(15 units required):**

* Please select ONE of the following concentrations - Ecosystem Science Concentration, Forest Management Sciences Concentration, or Forest Social Science Concentration.
* Please note that you must take at least two of these courses at NAU and get your dissertation committee’s approval for any courses taken elsewhere.
* Additionally, you can use FOR 506, FOR 695, and special topics courses offered by other departments in any of these concentrations, with approval by your dissertation committee.

**Option 1: Ecosystem Science Concentration (15 units)**

* Select from FOR 500, FOR 504, FOR 515, FOR 520, FOR 544, FOR 545, FOR 550, FOR 551, FOR 552, FOR 553, FOR 554, FOR 560, FOR 563, FOR 580, FOR 582, and FOR 604

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**Option 2: Forest Management Sciences Concentration (15 units)**

* Select from FOR 500, FOR 525, FOR 542, FOR 545, FOR 551, FOR 565, FOR 573, FOR 593, and FOR 633

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
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**Option 3: Forest Social Science Concentration (15 units)**

* Select from FOR 515, FOR 573, FOR 590, FOR 605, GSP 698 (when offered as "Planning for Small Communities and Rural Areas"), POS 658, and POS 659

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
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**III. Electives or Ecology, Evolution, and Conservation Biology Emphasis (10 units required):** Please select ONE of the following options – Forest Science Elective Coursework or Ecology, Evolution, and Conservation Biology Emphasis.

**Option 1: Forest Science Elective Coursework (10 units)**

* Select additional Forest Science electives with recommendation from your research committee.

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
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**Option 2: Ecology, Evolution, and Conservation Biology Emphasis (10 units)**

* Select BIO, ENV, or FOR 577 (3 units)
* Select one seminar course from FOR 505 or BIO 698 (1 unit)
* Breadth Courses (6 units): Select one course from two of the following groups:
	+ **Quantitative:** BIO 523, BIO 580, BIO 676, FOR 606, (EES 529 or GSP 529), or other graduate-level coursework in quantitative ecology at NAU, guided and approved by advisor input.
	+ **Physiological/population/community:** BIO 570, BIO 571, BIO 573, BIO 663, BIO 673, ENV 540, FOR 504, FOR 517, FOR 520, FOR 543, FOR 545, FOR 550, FOR 551, FOR 552, FOR 553, FOR 560, FOR 580, FOR 582, FOR 604, or other graduate-level coursework in physiological, population, or community ecology at NAU, guided and approved by advisor input.
	+ **Ecosystem/global:** (BIO 507 or FOR 507), BIO 578, ENV 571, FOR 515, FOR 544, or other graduate-level coursework in ecosystem/global ecology at NAU, guided and approved by advisor input.

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**IV. Dissertation (15 units required):** FOR 799, for the research, writing, and oral defense of an approved dissertation. Please note that you can only count 15 units of dissertation credit toward you degree; however, you may end up taking additional units since you must enroll each term while you’re working on your dissertation.

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
| FOR 799 a | Dissertation |       |       |       |       |       |       |
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**ADDITIONAL REQUIREMENTS**

In choosing courses, please be aware that:

* At least 39 units must be 500- and 600-level courses.
* No more than 24 units from a master's plan can be credited toward degree requirements.
* Your dissertation committee must approve all of your courses.

**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**

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 Office of Graduate & Professional Studies (OGPS) 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 your final Program of Study for graduation.

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.

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| **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 Bachelor’s and Master’s degree requirements. ONLY for designated Accelerated students.