**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: 43** |

# **Applied Physics and Materials Science Foundation (11 units required)**

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
| APMS 593 | Workshop |       |       |       |       |       |       |
| APMS 601 | Condensed Matter of Physics of Materials |       |       |       |       |       |       |
| APMS 602 | APMS Methods in Research |       |       |       |       |       |       |
| APMS 609 | Professional Proposal Writing in Applied Sciences |       |       |       |       |       |       |
| APMS 611 | Thermodynamics of Disparate Materials |       |       |       |       |       |       |

**II. Applied Physics and Materials Science Professional Communication (8 units required)**

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
| APMS 607 | Directed Readings |       |       |       |       |       |       |
| APMS 610 | Fundamentals of Applied Physics and Materials Science Teaching |       |       |       |       |       |       |
| APMS 687 | Professional Development Seminar |       |       |       |       |       |       |
| APMS 698 | Graduate Seminar |       |       |       |       |       |       |

**III. Material Science Coursework (12 units required):** Select from APMS 618, APMS 619, APMS 620, APMS 621, APMS 624, CHM 530, CHM 535, CHM 560, CHM 620, CHM 650, ME 573, ME 575, ME 599 (Multifunctional Materials), or additional electives chosen in consultation with your advisor.

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| **Course**  | **Course Title** | **Replacement Course** | **Semester** | **Year** | **Units** | **Grade** | **T/P/I/A\*\*** |
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**IV. Graduate Research and Thesis (12 units required)**

* **APMS 685 – Graduate Research: (6 units required)**
* **APMS 699 – Thesis: (6 units required)**

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

* Advisor Affiliation: Students can choose to actively engage with faculty during their first semester through rotations and research overview coursework or select an advisor without rotation. Once a student decides on a faculty mentor, and that mentor concurs, formal paperwork will be completed and filed indicating that selection and acceptance within that mentors’ group. While it is anticipated that most students will select a faculty mentor by the end of their first semester of their first year, all students are required to make that selection by the end of the second semester of their first year.
* Program of Study Approval, Spring Year One: In the spring of the first year, the students are actively engaged in research with their faculty mentor and have started to more formally finalize areas of study toward a thesis. A committee meeting, consisting of the faculty advisor, and two to three faculty within the program will be formed. Students will present on their topic of research and receive feedback as to their chosen thesis topic and program of study. Students will receive signature approval for their program or be asked to reevaluate and present again. Objectives: Early within their career students define a fruitful area of study, which helps the student focus their research and may iron out any student/advisor difficulties. This early meeting allows the student to determine their path toward achieving an M.S. Further, this meeting hones their presentation and writing skills.
* Thesis Defense: The examination consists of a written thesis, per all requirements of the institution, and oral defense of the thesis to the student’s committee. The student then defends that thesis to their committee. The outcomes of this exam will be a Pass or Fail, with ¾ consent of the committee needed for a Pass. Students that do not achieve a Pass on this exam may elect to retake the exam within a 6-month period from their first attempt.

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.