

# NSE Graduate Handbook

## School of Nuclear Science and Engineering



**Oregon State**  
University

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OSU Nuclear Science and Engineering

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## Welcome!

Welcome to Oregon State University (OSU) and the School of Nuclear Science and Engineering (NSE). This handbook is intended to help serve as a resource for new graduate students in the School. Please make sure to read it over and familiarize yourself with the School, faculty, University resources, academic policies and degree requirements. If, after reading the contents, you have unanswered questions, please feel free to ask for help. The staff, faculty, and fellow graduate students in NSE are available and willing to answer any questions. This document is not intended to be comprehensive. Additional information on deadlines, procedures and requirements is provided in the current policies outlined by the OSU [Graduate School](#).

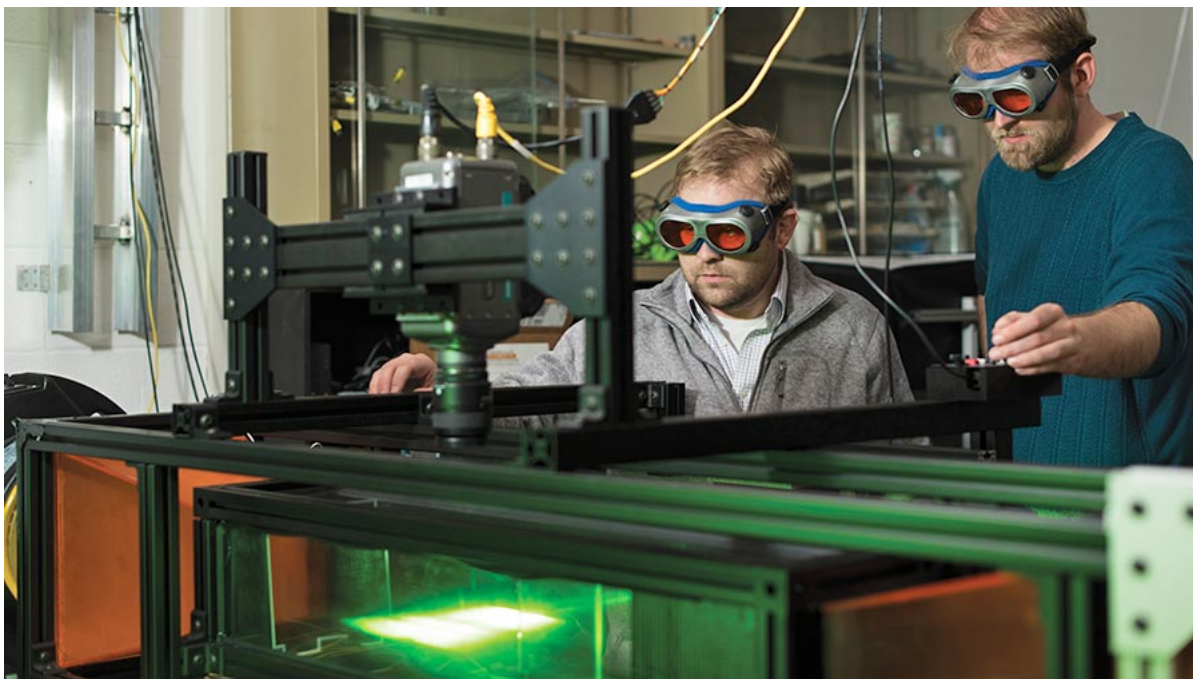
Graduate students in NSE are responsible for complying with the rules of the University, the Graduate School, and NSE. In some instances, the requirements of NSE are more restrictive than those of the Graduate School. In such cases, the School requirements specified in this document will apply.

The program requirements that an NSE student must satisfy for a graduate degree are those contained in the version of the Handbook and/or Catalog that is current at the time of your matriculation into the program. You and your graduate advisor should consult the correct handbook version for appropriate guidelines.

The faculty and staff in NSE hope that your time at OSU will be rewarding, memorable, and the beginning of a fruitful career in nuclear science and engineering.

Dr. Camille Palmer, Associate Professor  
Graduate Committee Chair  
School of Nuclear Science and Engineering

**Disclaimer: Official program requirements are available in the OSU Catalog. If there is a conflict between what is stated here and what is presented in the catalog, the OSU Catalog requirements take precedent.**



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## I Getting Settled

The School of Nuclear Science and Engineering (NSE) resides in Batcheller Hall, Merryfield Hall, and the Radiation Center (RC) – the facility that houses OSU's TRIGA nuclear research reactor. The RC is an instructional and research facility specially designed to accommodate programs involving the use of radiation and radioactive materials. This unique facility was designed and established to accommodate internal and off-campus instructional and research programs involving nuclear engineering, nuclear science, radiation protection, nuclear chemistry, and other related areas.

### I.1 Radiation Center Orientation Program

The RC conducts a general occupational and radiation safety orientation and training program for all individuals housed in the RC. You must complete the orientation process in order to obtain keys or an After-Hours Work Permit, which authorizes you to be in the RC outside of normal business hours (8 am – 5 pm, Monday through Friday). Please see the RC Administrative Assistant in C100 for more complete instructions on obtaining keys and an After-Hours Work Permit if you miss the orientation session.

The security of your keys is quite important for everyone's safety in the RC. It is imperative that any loss of keys be reported immediately to C100. You are requested to exercise the utmost care in the use of your keys. Under absolutely no circumstances are keys to be loaned to other individuals. Graduate students who will be absent from the RC during the summer should leave their keys with the RC Administrative Assistant in C100. This will minimize loss and facilitate the summer key inventory. In addition, keys must be returned when you finish your residency at the RC. Let the RC Administrative Assistant in C100 know of your pending departure at least a week in advance so the proper exit procedures can be followed.

Campus Security patrols the RC periodically outside of business hours (5 pm – 8 am). Anyone without an After-Hours Work Permit and valid photo ID will be required to leave the building. Office and laboratory doors and windows are to be kept closed and locked when not occupied. Security patrols will lock any open, vacant rooms. Do not let anyone into the building after hours. Individuals who are authorized to be in the building after hours are issued appropriate access codes and keys. Guests or family members are not allowed in the RC after hours. Anyone abusing this system will have his/her After-Hours Work Permit revoked.

### I.2 Graduate Student Offices

NSE graduate student offices are located throughout the RC, Merryfield Hall, and Batcheller Hall. Offices are assigned to returning students, and then to new students as they arrive on campus. There are limitations to space, therefore not all students will be granted office space. Students on graduate research or graduate teaching assistant appointments will be given preference, with remaining students placed as space permits. Office space for PhD students is also prioritized over office space for Masters students. For office assignments, see the Graduate Program Chair or the Graduate Student Liaison. Once placed, please do not change your office space without the Graduate Program Chair's approval.

### I.3 Mailboxes

Each graduate student is assigned a mailbox in C corridor at the front of the Radiation Center. U.S. mail is delivered once a day. Campus mail arrives twice daily at about 10:30 am and 2:30 pm. U.S. and campus mail drops are located in front of A100. Please check your mailbox regularly for notices, telephone messages, departmental circulars, and other information.

## 1.4 Computer Use

In general, most of the large computer codes used in the school have been moved to the UNIX system where their performance is maximized. The UNIX system should be used primarily for solving large-scale problems, software development, and symbolic mathematics. PC-based computers should be used primarily for word processing, spreadsheet, and internet connectivity applications.

School computers are supplied to allow you to perform your research activities and course work, and should not be used for games or other personal uses during normal business hours (8:00 am - 5:00 pm, Monday – Friday). After hours personal use, within reason (as described by University policy), is allowed as long as others do not need the computers for their research or class activities. Computer use supporting funded research takes priority over use for non-funded research.

Radiation Center Room A124 is divided into two sections: a computer laboratory space and a set of tables designed for collaborative group work for both undergraduate and graduate students. No computers, chairs, or desk locations should ever be used by a student as a permanent workstation. The intent of this common collaborative space is to provide students with resources that they need to succeed. Please be respectful of those who need them by working at a station actively, and picking up your belongings and cleaning up the space when you leave.

If someone is using a computer for an application which is inappropriate, or falls under a low priority, kindly request that they terminate their work in a reasonable period of time. In any case no more than 15 minutes should be needed to terminate the work on a lower priority application. If you are asked to terminate your work on a lower priority application, please stop work as soon as you can (again, in no more than 15 minutes).

Do not copy ANY software onto the School's computer hard disks without approval from the School Head and the Network Administrator. Software licensing and disk space availability are two issues that must be considered. The installation of your own personal copies of software on the school's machines without permission exposes the school to an unacceptable potential liability and therefore cannot be allowed. Please ask permission for the installation and use of your personal software if it is important to your research or course work. Also, please do not copy any software from the school's computers without permission. This, again, violates software licensing agreements.

For an introduction to the College of Engineering computing resources and services see [COE Engineering Information Technology and Computing Support](#) and make sure to review their [Policies](#) tab. If you have any general questions about using University computers, please contact College of Engineering Support at [coe.support@oregonstate.edu](mailto:coe.support@oregonstate.edu) for assistance.

## 1.5 Parking

A valid OSU Zonal Parking permit is required to park in any space on campus. The OSU Zonal Parking system includes seven general use zones (A1, A2, A3, B1, B2, B3, C), and two residence hall parking zones (BR, CR). The Radiation Center parking lot is designated zone B3, while parking on Jefferson Way west of SW 35th Street is designated zone C. Permits can be purchased online at the [Parking Services website](#). Please refer to the Parking Services website for the Parking and Shuttle Map as well as permit pricing. Parking Services can also be reached by phone at (541) 737-2583.

## 1.6 Smoking

Smoking is not allowed on the Corvallis campus. This includes the Radiation Center. Please consult the map on the [OSU Tobacco-Free Policy](#) for the campus boundary.

## 1.7 General Safety Guidelines

In order to comply with state and university fire prevention codes, the RC has adopted a policy which prohibits the use of personal coffee pots, hot plates, or other heating devices designed to heat water for coffee, tea, hot chocolate, etc. A refrigerator, coffeepots, hot water dispenser, and a microwave, can be found in the break-room, B134. No one should stay “overnight” in the building.

The last person to leave a room after 5:00 pm is required to check to see that all windows are closed and that door(s) are locked.

First aid kits and emergency eye wash stations and fire extinguishers are located at various places throughout the Radiation Center on the walls. Names of Radiation Center personnel qualified to administer first aid are also listed as part of the first aid kits. All injury accidents are to be reported to OSU's Office of Environmental Health and Safety on forms available from the Business Manager in A102.

Building evacuation drills will be conducted during the year. Please familiarize yourself with the evacuation signals and procedures. These are posted at numerous locations throughout the Radiation Center.

Additionally, Oregon State University, the Radiation Center, and each laboratory within the Radiation Center has a Laboratory-Specific Safety Chemical Hygiene and Safety Plan. The Principle Investigator (usually your academic advisor) is responsible for implementing the plan for their laboratory, including mandatory training for each person allowed access privileges to the respective laboratory. Familiarity with these plans is required and encouraged.

If you have questions regarding any of the above or any other safety matters, contact the RC Director.

## 2 Resources and Student Services

### 2.1 Student Resources

The Graduate School is committed to [Graduate Student Success](#) and maintains an excellent repository of student resources, including:

- [The Graduate Writing Center](#) provides support for graduate students working on theses and dissertations, seminar papers, manuscripts, poster presentations, research proposals, as well as conference and defense presentations. The Center offers both written and one-on-one remote sessions with highly-trained Graduate Writing Consultants.
- [Graduate Student Commons](#) or Grad Commons, is a place for graduate students on the sixth floor of the Valley Library. It supports student success by providing independent, collaborative and facilitated learning experiences.
- [Graduate School Forms](#) is a centralized location maintained by the Graduate School with links to required forms needed throughout your graduate education (i.e. Program of Study, Exam Scheduling, Leave of Absence, Apply to Graduate, etc.)
- [Coronavirus Updates for Graduate Students](#) contains information related to updated COVID-19 policies specific for graduate students.

A more complete list of campus resources can be found at the [Graduate Student Resources](#) website, including [Student Health Services](#) and the [Family Resource Center](#).

### 2.2 Professional Organizations

NSE faculty and students are actively engaged in several professional organizations including the [American Nuclear Society](#), [Health Physics Society](#), [Institute of Nuclear Material Management](#), and the [American Chemical Society](#). Opportunities exist to participate in the OSU Club as well as a student member in the professional societies. Participation often includes benefits such as conference attendance, placement services, access to journals, and opportunities to present papers. OSU student organizations that are recognized as Clubs will elect officers once each year. Please contact the faculty member representing the professional organization of interest.

- American Nuclear Society and Health Physics Society (ANS/HPS)  
- Faculty Advisor: Dr. Samuel Briggs
- Institute for Nuclear Materials Management (INMM)  
- Faculty Advisor: Dr. Camille Palmer
- American Chemical Society (ACS)  
- Dr. Alena Paulenova

Information regarding other OSU Student Organizations and Clubs can be found here: <https://clubs.oregonstate.edu/findclubs>

### 2.3 NSE Faculty and Staff

The faculty and staff within NSE represent a diverse set of expertise and are here to support your academic progress. You are encouraged to acquaint yourself with all of the [NSE Faculty and Staff](#).



### 2.3.1 Graduate Liaison

[Heidi Braly](#) serves as the liaison to the Graduate School for NSE. Heidi is intimately familiar with the Graduate School's policies and is the best resource for logistical administrative questions. In her role, Heidi maintains the repository of student annual Assessment of Academic Progress, exam results, and approved Program of Study documents and ensures all academic requirements are being met. You will need to email Heidi to assist in providing overrides to register for Thesis or Research Credits (See Section 3.8).

## 2.4 Facilities

The School of Nuclear Science and Engineering is housed, in part, in the [Radiation Center](#), an instructional and research facility established specifically to accommodate nuclear related research programs, to provide a location for the use of radionuclides and ionizing radiation sources, and to provide sources of fast and thermal neutrons and gamma rays. Major facilities at the OSU Radiation Center include: a 1.1 MW TRIGA research reactor and associated facilities, including a rotating sample rack, a pneumatic transfer irradiation system, a thermal column, in-core irradiation tubes (with and without cadmium), and four beam port facilities; a cobalt-60 gamma-ray irradiator; state-of-the-art digital gamma-ray spectrometers and associated germanium detectors; and various radiochemistry laboratories.

The School of Nuclear Science and Engineering is equipped with state-of-the-art nuclear and radiation protection instrumentation and computing facilities. Computers include a number of PC and UNIX based workstations. The school's computers also provide access through networking to larger computers, such as supercomputing facilities, on and off campus. In addition to radiation facilities, there are laboratories dedicated to the investigation of other phenomena important to the study of nuclear science and engineering, including a number of large-scale experimental test facilities.

For more information, please see the School's Research and Lab [Facilities](#).

### 3 Academic Progress and Expectations

Graduate students are expected to read the academic policies governing graduate study at OSU including, but not limited to, the [OSU Catalog](#), the [Graduate School policies](#), and the [OSU's Student Conduct and Community Standards](#). The information provided in this section of the NSE Graduate Handbook addresses only a few topics regarding those policies.

#### 3.1 Advisor/Major Professor

The Graduate Program Director will act as or appoint an advisor for all incoming graduate students until a major professor is established.

Make an initial appointment to see your advisor prior to registering. Your advisor will help you plan your schedule and make sure requirements are fulfilled. You are, however, ultimately responsible for seeing that you have fulfilled all the requirements necessary for graduation. It is the responsibility of each student to propose a viable program and to ask a faculty member to become their major professor. ***A major professor must be identified before the completion of 18 credits, typically by the end of your second term at OSU.***

If a student has not formalized an advisor/major professor for their research, the general advice is to be thoughtful to clearly communicate research interest(s) and mutual expectations. Your major professor will guide your research efforts to completion and oversee all aspects of your graduate studies. You will have a close working relationship with this individual for the duration of your degree program, and ongoing professional contacts thereafter. The student is also responsible for actively seeking information about individual research projects. Good sources of information are the professors themselves and their graduate students.

#### 3.2 Academic Performance

A graduate student is expected to maintain a grade point average of 3.00 or better in (1) each registered quarter, (2) each major or minor field in his/her program, and (3) in his/her overall cumulative graduate program at Oregon State University. Grades below "C" (2.00) cannot be used on a graduate program of study. Failure to maintain these standards is considered grounds for terminating a student's program and/or financial support. Note that a cumulative GPA of 3.00 or better is required before the final oral or written exam may be taken.

#### 3.3 Annual Self-evaluation

Early in their programs, all NSE ***MS and PhD*** students should collaborate with their major professor and graduate committee to establish standards and expectations of satisfactory progress. Student progress will be assessed annually. An assessment of academic progress is made by the student, the student's major professor and, if requested, by other members of the student's graduate committee. Any member of the committee may provide an evaluation of student progress for inclusion in the assessment package, but this is optional. Follow the steps described in [Assessment of Graduate Student Academic Progress](#). It is the responsibility of the student to conduct a self-assessment, arrange to meet with their major professor to review their academic progress, and to submit the signed and completed appropriate form to the NSE Graduate Liaison no later than June 30<sup>th</sup> each year. Links to the individual forms can also be found on the [NSE Current Student](#) page.

#### 3.4 Research Integrity

The conduct of research is a central educational component for Masters and Doctoral degrees. The conduct of research comes with certain ethical and legal responsibilities. It is the expectation of the School that you

conduct your research activities with the highest standards of integrity, including compliance with all ethical, regulatory and University requirements.

Responsible Conduct of Research (RCR) Training is required for all NSE graduate students. To complete your RCR training:

1. Go to: <https://about.citiprogram.org/series/responsible-conduct-of-research-rcr/>
2. Register as a new user by clicking on the white “Register” box near the upper right-hand corner of CITI’s homepage.
3. Complete the seven-step, online CITI-Learner Registration process

Step 1: Enter “Oregon State University” in the box where you are asked to “Select Your Organization Affiliation”

Step 2: Enter your personal information being sure to use your @oregonstate.edu e-mail address. This way OSU will pay all of the course fees for any training you take on the CITI website. Do not use a personal e-mail or you will be charged for the courses you complete.

Steps 3-7 are self-explanatory.

4. Log into your CITI account.
5. Upon login, choose the dropdown menu item listed as “Oregon State University Course.”
6. Under the heading, “My Learner Tools for Oregon State University” choose “Add a Course.”
7. Answer Questions 1, 2 and 7 as “Not at this time,” answer “no” to Questions 3, 6 and 8, leave Question 4 unanswered, and choose “RCR for Engineers” for your answer to Question 5 Responsible Conduct of Research, and hit the Submit button at the bottom of the curriculum selection form.
8. Now a course entitled “Responsible Conduct of Research for Engineers” should be listed in your Oregon State University Courses dropdown, click on the title of the course.
9. Click on the “Complete the Integrity Assurance Statement before beginning this course” box.
10. Read and agree to the assurance statement and other for accessing CITI Program materials and submit the form.
11. Complete the eleven modules within the RCR for Engineers course.  
Each module will take 5-30 minutes to complete. You do not need to complete all modules in one sitting.
12. Upon completion of the entire course you will see a message that tells you that a completion report has been sent to Oregon State University. That report goes to OSU’s Office of Research Integrity. NSE is not copied on the report. Therefore, please provide a copy of your certificate of completion report to Heidi Braly at Heidi.Braly@oregonstate.edu with the title of “RCR Training Certificate - YOUR FULL NAME”.

### 3.5 Program of Study

All students are required to complete a Program of Study outlining the courses they will take to meet their degree requirements. The Program of Study is a contract between the student, the School, and the University (the Graduate School). Students must first establish a graduate committee that meets the minimum requirements of the Graduate School [Committee Composition](#). For every graduate degree, all

committee members must approve and sign the [Digital Program of Study](#). For doctoral degrees, students must first convene a Program Meeting with all of their committee members prior to submitting the Program of Study. It will then be routed for digital signature in DocuSign for approval by individuals representing the Program, School, and Graduate School. ***The Program of Study form is to be submitted before you complete 18 credit hours.***

### 3.6 Dismissal from Graduate School

Advanced-degree students (regularly, conditionally, and provisionally admitted) are expected to make satisfactory progress toward a specific academic degree. This includes maintaining a GPA of 3.00 or better for all courses taken as a graduate student and for courses included in the graduate program, meeting program requirements, and/or participating in research activity. Failure to meet this expectation could lead to academic warning, academic probation, and eventually dismissal from the program.

Academic dishonesty and other violations of the [Student Conduct and Community Standards](#) may serve as grounds for dismissal from the Graduate School.

### 3.7 Graduate Assistantships

Graduate research or teaching assistants are typically appointed for an academic year (9 months), provided the recipient is a graduate student in good standing. Annual performance evaluations will be completed by the graduate student's supervisor, and these evaluations will factor into a student's employability. No appointment can be for less than 0.35 FTE ("full-time equivalence") or more than 0.49 FTE. All graduate assistants are required to carry out the duties assigned by their faculty supervisor to justify their stipend. For example, graduate assistants on a 0.40 FTE appointment are expected to provide an average of 16 hours of service per week. This service is in addition to the time required to complete the thesis research. Graduate assistants at other FTE levels would provide proportional levels of service.

University policy dictates that a graduate assistant must be enrolled for no less than 12 credit hours in any term in which he or she is supported, except for Summer term which requires a minimum of 3 credit hours.

Students who hold more than one job on campus may not work more than a total of 20 hours per week or 255 hours per term for all positions held. Maintaining a GPA of 3.00 or better is required for continuing financial support.

Graduate Assistants (GAs) are covered by the [Coalition of Graduate Employees and OSU \(CGE-OSU\) contract](#). The Coalition of Graduate Employees (CGE), the union representing graduate employees, also provides [resources](#) to help navigate employment at OSU.

### 3.8 Registration Requirements

Students register for classes by logging into <https://my.oregonstate.edu>. For more information on how to add a course and term deadlines, visit the Office of Registrar's [Adding Courses](#).

#### Minimum Registration Requirements

- EVERY student must register for a minimum of 3 credits, including
  - Any Summer term in which a student enrolls.
  - The term in which the thesis or dissertation (MS or PhD) is defended or the comprehensive oral exam / summative assessment (MHP or MEng) is completed.
  - Any term a student uses university space and facilities or requires supervision of the major professor, regardless of the student's location (on-campus or Ecampus).

- TAs / RAs must register for at least 12 credits (Fall – Spring terms).
  - Auditing a class or enrolling in Continuing Higher Education and other self-support programs may not be used to satisfy enrollment requirements for graduate assistant tuition remission.
- Students receiving financial aid must contact the [Financial Aid Office](#) for specific registration requirements per term. Students must notify Financial Aid if they plan on enrolling less than full time.

### Maximum Registration Requirements

- Graduate students can register for a maximum of 16 credits each term. Students must receive permission from their major professor and the Graduate School to register beyond 16 credits.

### Full-Time and Part-Time Enrollment

- Full-time graduate status is an enrollment of 9 credits per term (including Summer).
- Financial Aid for part-time graduate students is evaluated on the basis of their part-time enrollment; students must contact Financial Aid for specific requirements.

### Late Registration

- Registration that occurs after the registration deadline requires the submission of a [Petition for Late Registration](#).

#### 3.8.1 Research and Thesis Credits

Registration for Research or Thesis credits requires the approval of your major professor/advisor and a registration override. This process is best completed through email. Registration override requests can be sent to the Graduate Liaison ([heidi.braly@oregonstate.edu](mailto:heidi.braly@oregonstate.edu)).

When requesting a registration override, please include your **OSU ID number** and the **course registration number (CRN)**.

- Research Credits: ***Graduate students in the School of Nuclear Science and Engineering are NOT allowed to use NSE 501 or NSE 601 (Research) credits to fulfill requirements on a graduate program of study.***
- Thesis Credits: Graduate students pursuing Master of Science degrees must include 6 credits of NSE 503 (Thesis) on their program of study. The program of study for a PhD student must include at least 36 credits of NSE 603.

#### 3.8.2 NSE Seminar

All graduate students are expected to participate in a School seminar course (NSE 507/607) each enrolled term if one is offered; this is intended to develop your understanding of the profession and to develop communication skills. Additional requirements may be set by the student's major or minor professor, by the School, or by the student's advisory committee as needed to strengthen his or her background. Only *three* seminar credits can be counted on a Program of Study.

### 3.8.3 Summer Term

The University requires that graduate students who occupy labs, office space, or utilize University facilities during the summer quarter register and pay fees. Graduate Assistants on appointment during the summer term normally must register for a minimum of 3 credits. However, summer graduate assistant employees must register at half-time status to avoid having FICA taxes (Social Security and Medicare) withheld from their paychecks. For graduate students, the minimum is 5 credits. It is recommended that you discuss with your major advisor before registering for the summer term.

### 3.8.4 Leave of Absence

You must fill out a [Leave of Absence Request](#) and have it approved by the Graduate School (at least 15 business days prior to the start of the term) if you need to take off a term (Fall, Winter, or Spring) for any reason.

- You are limited to three leaves of absence during your program. Some students (e.g. Military students called to duty) have more flexibility in the number of leaves allowed by the Graduate School.
- Notify Heidi Braly and your academic advisor if you need to take a leave.
- You never need to fill out a leave form for summer term.
- A graduate student who takes an unauthorized break in registration by failing to maintain continuous enrollment or by failing to obtain regular or planned leave of absence will relinquish his or her graduate standing in the university. Students who wish to have their graduate standing reinstated will be required to file an Application for Graduate Readmission and pay the readmission fee. The readmission application must be approved by the student's major professor, department/school/program chair, and graduate dean. Acceptance back into a graduate program is not guaranteed even if the student departed in good standing. The petitioner for readmission will be required to meet university and departmental admission requirements and degree completion requirements that are in effect on the date of readmission. Review of the Application for Graduate Readmission may also result in a change of residency status from resident to nonresident.
- International students should check with the [Office of International Services](#) about registration requirements.

For more information about the Graduate School's policies,

- See the OSU Catalog under [Policies Governing All Graduate Programs](#), OR
- Contact the OSU Graduate School at 541-737-4881.

## 3.9 Health Insurance and Immunization Requirements

[Student Health Services](#) offers clinical and wellness services and information regarding immunization requirements.

[Graduate Student Insurance Plans](#) are now covered by the Office of Human Resources. Please email [gradhealth@oregonstate.edu](mailto:gradhealth@oregonstate.edu), call 541-737-7568 or visit room 236 in the Kerr Administration Building for assistance.

### 3.10 Tuition Bills

Information regarding the payment of tuition or OSU bills can be found at the [Student Billing](#) website. Please direct any questions about tuition, fees, and financial aid to the [Student Account Services](#) in the Business Affairs Office.

## 4 Master Degree Programs

The School of Nuclear Science and Engineering (NSE) offers several degree programs in Nuclear Engineering and Radiation Health Physics. The School currently offers the following Masters' degrees:

- Master of Science (MS);
- Master of Engineering (MEng); and
- Master of Health Physics (MHP).

The NE and HP degrees require a minimum of 45 credits to graduate; 24 credits must be graded graduate level NSE courses. Additional credits above 45 may be required depending on the educational background of the student. All students must complete a [Program of Study](#) form before completing 18 credits.

It is the policy of the NSE Faculty that a minimum of 45 credits are required for the MS degree, of which no more than 9 blanket credits (excluding thesis credits) can be applied. Of these 9 blanket credits, 3 credits (no more, no less) must be Seminar (NSE 507). If additional blanket credits are to be included, those credits must be graded (not pass/fail). In addition, for MS students, 6 credits (no more, no less) of Thesis (NSE 503) must be included on the program of study.

### Master of Science

A thesis in the major area is required for the MS degree, and the thesis format is bound by the rules of the Graduate School and the policies of the School of NSE. Visit the Graduate School's website for details. Six, and only six, of the required 45 graded credit hours must be Thesis credits.

### Master of Engineering (NE only) and Masters of Health Physics (RHP only)

The MEng and MHP degree options provide students the opportunity to pursue advanced-level study without the requirement of completing thesis research. A comprehensive oral exam (or alternative summative assessment) must be successfully completed in lieu of the thesis requirement. Other course requirements are the same as those for the MS degree. These degrees are intended as terminal degrees, not as preparation for a doctorate degree, and will emphasize job-related knowledge and skills. Although not required, students wishing to pursue a PhD in the future are advised to pursue an MS degree, not the MEng or MHP degree.

### Minor (NE or RHP)

A minor field of study is optional. If a minor is declared, however, the minor credit hour requirement specified by the Graduate School is 15 hours minimum. Master's students are expected to take 18 hours or more of minor subject courses if the minor is "integrated"; i.e. it spans two or more academic units. The NSE Graduate Committee may apply suitable courses to such an integrated minor requirement as long as the courses are not in your major area of concentration and they comprise less than one-half of the credits in the minor.

It is the policy of the NSE faculty that it is acceptable for an NE student to obtain a RHP minor, and vice-versa, with a minimum of 15 credits from the courses listed below, respectively.

- RHP Minor: NSE 516 (4), NSE 582 (4), NSE 583 (3), NSE 588 (3), NSE 590 (3)
- NE Minor: NSE 551 (3), NSE 552 (3), NSE 553 (3), NSE 557 (2), NSE 567 (4), NSE 573 (3), NSE 568 (3)



## 4.1 Master of Science with Thesis

In this document, “thesis” refers to the manuscript written for an Master’s degree, while “dissertation” refers to the manuscript written for a doctoral degree. The thesis demonstrates the mastery of professional knowledge in a particular subject area of the student’s chosen field. It must present innovative research or a novel application of a known methodology to appropriate problems. A conscientious survey of pertinent literature is a prerequisite to an acceptable thesis. The research topic must be approved by the major professor, and the research title must be registered with the Graduate School.

It is the policy of the NSE Faculty that MS students will follow the thesis formatting as stated under “Standard Document Format” in the OSU Graduate School [Thesis Guide](#). The “Manuscript Document Format” will not be allowed for a Master’s thesis.

Since the thesis results from a significant body of work, the student is encouraged to publish the results of the thesis in the open literature. The student cannot schedule a defense exam with the Graduate School until the major professor approves the thesis for distribution to all committee members. Once approved, the student must submit a copy of the thesis to each committee member and complete the Event Scheduling Form with the Graduate School at least two weeks prior to the intended defense date. See your major professor for any other rules regarding thesis defense preparation requirements.

An MS candidate will be subjected to a two-hour final oral comprehensive examination, which includes a thesis research presentation, defense of the research, and exam questions on major, minor, and other pertinent academic subjects.

### Thesis Guide

It is important to refer to the Graduate School’s [Thesis Guide](#), which explains the specific formatting criteria and submission process. Students are encouraged to review the site before starting to write the thesis to ensure understanding of the formatting, procedures, and deadlines.

#### 4.1.1 Thesis Defense Committees

1. The principal authority over a student’s program resides with the student’s Master’s Committee. This committee is responsible for:
  - assuring that University and School requirements are satisfied; and
  - administering the final oral examination.
2. The Committee must comply with the [Graduate School’s Committee Composition](#), which for an MS consists of at least 4 members:
  - the student’s major professor;
  - one other NSE faculty member;
  - the student’s minor professor, or if no minor is selected, this committee member may be selected from graduate faculty at-large; and
  - the Graduate Council Representative (GCR).

Note: the composition of a student’s Master’s Committee MUST be approved by the major professor.

3. The committee is originally formed, with approval from the major professor, at the student’s invitation. The Graduate Council Representative is selected from a list [generated by the Graduate School](#). The Graduate Council Representative is required to attend the final examination (thesis defense). For more information on how to identify a GCR watch the short video [Finding a Graduate Council Representative](#).



#### 4.1.2 MS In Nuclear Engineering

- At a minimum, students shall include all courses listed below in Table 1 in their Program of Study;
- The remainder of the student's major program can include any other 500 or 600 level courses as APPROVED by the major professor. Note that at least 24 credits must be graded graduate level NSE courses.

<b>Major Core Courses For All NE Students</b>	<b>Number of Credits</b>
NSE 531 – Radiophysics	3
NSE 536 – Advanced Instrumentation	4
NSE 568 – Nuclear Reactor Safety	3
NSE 535 – Radiation Shielding and External Dosimetry	4
<b>Major Core Total</b>	<b>14</b>
<i>NOTE: Those students who have taken an undergraduate course in nuclear physics with a satisfactory grade (B or better) are not required to take NSE 531 and could substitute another NSE course for NSE 531; Those students who have completed NSE 435 (or equivalent) shall substitute another NSE course for NSE 535.</i>	
<b>Restrictive electives</b> NSE courses to be selected by the student and major advisor(s)	<b>10 or more</b>
<b>Electives</b>	<b>15 or fewer</b>
To be determined by the student with major advisor(s) <i>NOTE: These courses can be NSE or other courses</i>	
<b>Other Requirements</b> NSE 503 – Thesis NSE 507 – Seminar	6 3 (1 each)
<b>Responsible Conduct of Research Training</b>	<b>Section 5.12</b>
<b>Minimum Required Credits for the Degree</b>	<b>45</b>

Table 1: Courses for MS in NE

NOTE: Term offerings may be subject to change. Consult the OSU Catalog each term.

### 4.1.3 MS in Radiation Health Physics

- At a minimum, the student's Program of Study shall contain the courses in Table 2 below (or equivalent);
- The remainder of the student's major program can include any other 500 or 600 level courses as APPROVED by the major professor. Note that at least 24 credits must be graded graduate level NSE courses.

Major Core Courses For All RHP Students	Number of Credits
NSE 515 – Nuclear Rules and Regulations	2
NSE 516 – Radiochemistry	4
NSE 531 – Radiophysics	3
NSE 535 – Radiation Shielding and External Dosimetry	4
NSE 536 – Advanced Instrumentation	4
NSE 582 – Applied Radiation Safety	4
NSE 583 – Radiation Biology	3
NSE 588 – Radioecology	3
NSE 590 – Internal Dosimetry	3
NSE 507 – Seminar	3 (1 each)
<b>Major Core Total (for all)</b>	<b>34</b>
Other Requirements / Electives	
NSE 503 – Thesis	6
500 or 600 level courses (electives) as approved by major professor	varies
<b>Other Requirements / Electives Total</b>	<b>varies</b>
<b>Responsible Conduct of Research Training</b>	<b>Section 5.12</b>
<b>Minimum Required Credits for the Degree</b>	<b>45</b>

Table 2: Courses for MS in RHP

NOTE: Term offerings may be subject to change. Consult the OSU Catalog each term.

## 4.2 Non-Thesis MEng and MHP

### Final Oral Exam

The following guidelines are written to help the student prepare for the oral exam. In addition to these guidelines, all rules of the Graduate School pertaining to final [Master's oral exams](#) must be adhered to.

1. The Committee must comply with the rules regarding [Graduate School's Committee Composition](#), which for a non-thesis Masters consists of three members:
  - the student's major professor;
  - one other NSE faculty member; and
  - the student's minor professor, or if no minor is selected, an additional NSE faculty member.  
Note: No Graduate Council Representative is required for an MHP or MEng oral exam.
2. The makeup of the exam committee must be approved by the student's major professor.
3. The exam shall be scheduled by the student, after consultation with all committee members, for a two-hour period. Scheduling shall be done through the Graduate School using their [Exam Scheduling Form](#).
4. The student shall be given the option of selecting an area of concentration for the exam. The majority of exam questions will then be derived from material in that area. Exam concentration areas must be discussed with the student's major professor. The student must declare, to all committee members, the concentration choice at least one week prior to the exam.
5. Masters candidates who fail the oral examination on the first attempt may be given the opportunity, by the exam committee, to retake the exam or may be asked to leave the program without receiving the degree. Students are allowed to retake the exam one time only. Any student failing the second attempt will be dismissed from the program without receiving the degree.

### Portfolio Option

The portfolio is a document that demonstrates mastery of the engineering material and other graduate skills through selective presentation of work from classes. Students will also discuss professional goals, communication, ethics and the legal context within their particular field.

The portfolio option is available (as of Fall 2020) to NSE students pursuing an MEng degree. NSE students pursuing the MHP degree can choose the portfolio option, provided they are not graduating before the end of Summer 2022.

How do I write a Portfolio?

Students take the *Intro to Portfolio* course (graded, 1 credit) during their first term as MEng/MHP students. Numbered ENGR 520, this course introduces the concept, provides guidelines and rubrics and other orientation subjects that will be useful. There are various homework projects throughout the course that check off the official Graduate School requirements and pre-work for the portfolio.

In their final term, the term they graduate, students take ENGR 521 *Portfolio Completion* (graded, 1 credit) in which they are guided through pulling the materials together and writing the document. It is written and submitted in sections throughout the term. About mid-term it is reviewed by NSE faculty for technical ability and feedback. The final corrections are made and professional pieces added and the entire Portfolio is

re-submitted. The portfolio is graded according to the College of Engineering rubric and a decision is made as to whether the student passes. **This is the final exam for the graduate degree.**

1. The Committee must comply with the [Graduate School's Committee Composition](#), which for a non-thesis Masters consists of three members:
  - the student's major professor;
  - one other NSE faculty member; and
  - the student's minor professor, or if no minor is selected, the instructor of ENGR 520 and 521.  
Note: No Graduate Council Representative is required for an MHP or MEng oral exam.
2. The makeup of the committee must be approved by the student's major professor.
3. The student must complete the *Intro to Portfolio* course ENGR 520 (graded, 1 credit) during the first term as MEng/MHP.
4. In the final term, the intended term of graduation, the student must take ENGR 521 *Portfolio Completion* (graded, 1 credit). The portfolio will be evaluated by the course instructor and the student's major advisor. A satisfactory evaluation result is required for graduation.
5. The student will be offered an opportunity to re-develop the portfolio if they fail on the first or second attempts, for a total of three attempts maximum. A student who receives an unsatisfactory assessment result must retake ENGR 521 in order to submit a revised portfolio in the following term.
6. During the final ENGR 521 course, scheduling will be completed through the Graduate School using their [Exam Scheduling Form](#).

#### 4.2.1 MEng In Nuclear Engineering

- At a minimum, students shall include all courses listed below in Table 3 in their Program of Study;
- The remainder of the student's major program can be a compilation from any other 500 or 600 level courses as APPROVED by the major professor. Note that at least 24 credits must be graded graduate level NSE courses.

<b>Major Core Courses For All NE Students</b>	<b>Number of Credits</b>
NSE 531 – Radiophysics	3
NSE 536 – Advanced Instrumentation	4
NSE 568 – Nuclear Reactor Safety	3
NSE 535 – Radiation Shielding and External Dosimetry	4
<b>Major Core Total</b>	<b>14</b>
<i>NOTE: Those students who have taken an undergraduate course in nuclear physics with a satisfying grade (B or higher) are not required to take NSE 531 and may substitute another NSE course for NSE 531; Those students who have completed NSE 435 (or equivalent) shall substitute another NSE course for NSE 535.</i>	
<b>Restrictive electives</b> NSE courses to be selected by the student and major advisor(s)	<b>10 or more</b>
<b>Electives</b>	<b>15 or fewer</b>
To be determined by the student with major advisor(s) <i>NOTE: These courses can be NSE or other courses</i>	
<b>Other Requirements</b> NSE 507 – Seminar	3 (1 each)
<b>Responsible Conduct of Research Training</b>	<b>Section 5.12</b>
<b>Minimum Required Credits for the Degree</b>	<b>45</b>

Table 3: Courses for MEng in NE

NOTE: Term offerings may be subject to change. Consult the OSU Catalog each term.

#### 4.2.2 MHP in Radiation Health Physics

- At a minimum, the student's Program of Study shall contain the courses in Table 4 below (or equivalent);
- The remainder of the student's major program can be a compilation of any other 500 or 600 level courses as APPROVED by the major professor. Note that at least 24 credits must be graded graduate level NSE courses. A [Sample Degree Progression Plan](#) is provided for Ecampus Students.

Major Core Courses For All RHP Students	Number of Credits
NSE 515 – Nuclear Rules and Regulations	2
NSE 516 – Radiochemistry	4
NSE 531 – Radiophysics	3
NSE 535 – Radiation Shielding and External Dosimetry	4
NSE 536 – Advanced Instrumentation	4
NSE 582 – Applied Radiation Safety	4
NSE 583 – Radiation Biology	3
NSE 588 – Radioecology	3
NSE 590 – Internal Dosimetry	3
NSE 507 – Seminar	3 (1 each)
<b>Major Core Total</b>	<b>34</b>
Other Requirements / Electives	
500 or 600 level courses (electives) as approved by major professor	varies
<b>Other Requirements / Electives Total</b>	<b>varies</b>
<b>Responsible Conduct of Research Training</b>	<b>Section 5.12</b>
<b>Minimum Required Credits for the Degree</b>	<b>45</b>

Table 4: Courses for MHP in RHP

NOTE: Term offerings may be subject to change. Consult the OSU Catalog each term.

### 4.3 Master's Degree Progression and Deadlines

The Graduate School maintains a [Masters Degree Flowchart](#) required to obtain the MS, MHP or MEng degree.

Please refer to the [Masters Student Timeline](#) that includes additional links to details regarding committee formation, program of study, initial program meeting, scheduling your oral examinations, application to graduate, and submission of your final thesis document. Or, watch their 8-minute [Video Tutorial](#). Masters students' work must be completed within seven years, including transfer credits, course work, and the thesis/oral exam.

Masters students should be familiar with the specific and detailed information contained in the OSU Catalog and the Graduate School website, as well as NSE requirements. Final oral exams must be scheduled through the Graduate School using their [Exam Scheduling Form](#) and may only be scheduled during periods when classes are in session (including finals week). MHP or MEng students opting to complete a portfolio in lieu of taking a final oral exam will still need to complete the exam paperwork during ENGR 521.

#### 4.3.1 Notes About Masters Program of Study

You should work with your major professor to fill out the [\(Digital\) Program of Study](#). You will need to submit the Program of Study for digital signature in DocuSign for approval by your committee and individuals representing the Program, School, and Graduate School.

For various reasons, differences often occur between the classes you plan to take and what you actually end up taking to earn your degree. When you graduate, the Program of Study must be 100% accurate. You should compare the Program of Study on file with your transcripts, which can be viewed by logging into Student Online Services. Make corrections by filling out the [Petition to Change the Program of Study form](#) at least one term before your final oral exam (defense). You do not have to fill it out each time you deviate from your original program; however, you need to keep your committee informed of any and all changes since they must approve your final Program.

## 5 Doctoral Degree Program

The School of NSE offers Doctoral Degrees in the following programs:

- Nuclear Engineering (NE); and
- Radiation Health Physics (RHP);

### 5.1 Course of Study

All students must complete a [Program of Study](#) form before completing 18 credits.

1. Requirements for the doctorate include:

- (a) at least 108 graduate credits beyond the Bachelor's degree;
- (b) at least 50% of the course work must be graduate stand-alone courses;
- (c) a minimum of one year of residence, continuously, at OSU (i.e., three consecutive terms as a full-time student);
- (d) passing a preliminary oral examination in the major subject; and
- (e) successfully defending the dissertation.

For other regulations, see the OSU Catalog, Graduate School website and School of NSE policies.

2. In addition, the School of NSE's requirements include:

- (a) total non-thesis coursework of 36 credits or more;
- (b) completing Responsible Conduct of Research Training (see Section 3.12);
- (c) passing a qualifying examination for candidacy;
- (d) calling regular (every 6 months recommended, but at least annual) meetings of the Doctoral Committee so that the student's progress can be evaluated, and guidance offered; and
- (e) preparing, presenting and defending a written dissertation proposal, i.e., the Preliminary Exam. Confer with your major professor to prepare for this exam. The Prelim Exam should be taken as soon as possible after the qualifying exam;
- (f) a presentation of an original dissertation for which a minimum of 36 dissertation credit hours (NSE 603) has been accumulated;
- (g) additional courses or thesis (NSE 603) credits to be determined by the doctoral committee, in order to meet Graduate School's degree requirements.

### 5.2 Doctoral Committees

1. The principal authority over a student's program resides with the student's Doctoral Committee. This committee is responsible for:

- assuring that University and School requirements are satisfied;
- monitoring student progress;
- assigning and approving courses of study;
- approving dissertation topics and paths-forward; and
- administering preliminary and final oral examinations.

2. The Committee must comply with the [Graduate School's Committee Composition](#), which for a PhD includes at least 5 members:



- the student's major professor;
- two other NSE faculty members;
- the student's minor professor, or if no minor is selected, a committee member may be selected from the graduate faculty at-large; and
- one Graduate Council Representative.

A student's Doctoral Committee may contain more than 5 members. Any additional members beyond the required 5 must be chosen from the Approved Graduate Faculty List for NSE maintained by the OSU Graduate School.

Note: the composition of a student's Doctoral Committee MUST be approved by the major professor.

3. The committee is originally formed, with approval from the major professor, at the student's invitation. The Graduate Council Representative is selected from a list [generated by the Graduate School](#). The Graduate Council Representative is required to attend the final examination (thesis defense). For more information on how to identify a GCR watch the short video [Finding a Graduate Council Representative](#).
4. The Committee must be appointed prior to the PhD Program Meeting.

### 5.3 Matriculation/Candidacy

1. Matriculation (first term of attendance) qualifies the student to:
  - (a) select a general area of dissertation research;
  - (b) form a doctoral committee with the major professor's guidance and approval; and
  - (c) hold the initial doctoral Program Meeting.
2. After matriculation, the student must pass a qualifying examination to advance as a PhD candidate (described below).

### 5.4 Qualifying Examination for Doctoral Students

The purposes of the PhD Qualifying Exam are:

1. To evaluate a PhD student's mastery of core content in the specified subject area
2. To evaluate a PhD student's ability and preparation to conduct independent research

#### 5.4.1 Schedule the Qualifying Exam

All students entering the doctoral programs are required to complete the qualifying examination within 18 months of matriculation as a PhD student.

#### 5.4.2 Structure of the Qualifying Exam

The PhD qualifying exam has two parts:

1. Proficiency in coursework;
2. Competency in research.

Upon completing the doctoral program meeting and passing both parts of the qualifying exam, the student is categorized as a PhD candidate.

The PhD qualifying exam will be administrated by an exam committee. The members of the exam committee must include:

1. The student's major advisor and
2. all other NSE faculty members on the student's Doctoral Committee.

The *NSE PhD Qualifying Examination Form* must be completed and submitted to the NSE Graduate Committee for approval by the end of the first term. This form is available at: <https://ne.oregonstate.edu/current-students>.

### **Part 1: Proficiency in coursework**

To complete Part 1 of the qualifying exam, the student has to achieve a cumulative GPA of 3.5 or higher with no course grade less than B, calculated based on five selected courses as follows:

1. NSE 531 or equivalent approved by the exam committee;
2. Four out of five OSU graduate-level courses selected and approved by the exam committee with a minimum of 12 credits.

The NSE 531 equivalent course can be a graduate or undergraduate course from OSU or another institute deemed appropriate by the student's exam committee. In addition, five OSU graduate-level courses must be selected, declared and approved by the exam committee *in the first term of enrollment in the PhD program*. Once submitted, the list of selected courses cannot be changed unless a course on the list is no longer offered. Four courses with the highest grades from this list of selected courses will be used for assessment in this part of the qualifying examination. No course can be used more than once in calculating the cumulative GPA.

If the cumulative GPA calculated as above falls below 3.5, or any of the selected courses has a grade less than B, the exam committee has to review the student's academic performance and determine if the student has demonstrated proficiency in core coursework. A negative outcome of this review will lead to the student's dismissal from the PhD program.

Passing Part 1 of the qualifying exam is required to advance to *Part 2: Competency in research*.

### **Part 2: Competency in research**

To complete Part 2 of the qualifying exam, the student must:

1. *Generate a written summary*. Each student shall receive an assignment from the major advisor four weeks before the date of the oral presentation. The content of this assignment is determined by the major advisor, which could be but are not limited to:
  - (a) Critiquing a journal paper;
  - (b) Conducting literature research on a given topic;
  - (c) Producing a research proposal within a specified topic area.

Use standard 8.5" X 11" paper with 1-inch margins (top, bottom, left, right). Use a font size no smaller than Times New Roman 11 point. Use single column. This summary has to be submitted to the exam committee at least *one week* before the oral presentation.

2. *Give an oral presentation*. Each student is expected to give an oral presentation within four weeks from receiving the assignment. The presentation should not exceed 60 minutes.

3. *Answer questions from the exam committee.* Following the oral presentation, the exam committee will ask questions pertaining to the student's research field or the specifics of the assignment. The questions will probe your research capability and the fundamentals of nuclear science and engineering. This section of the exam should not exceed 60 minutes.

It is the student's responsibility to survey the exam committee, choose a date for the oral exam and notify the NSE Graduate Committee. Shortly after the oral exam, the exam committee will assign a grade of pass or fail. The major professor will provide feedback to the student and notify the NSE Graduate Committee the exam result.

In Part 2 of the qualifying exam, students will be scored on the following:

1. The ability to think logically, express a point of view and defend it both orally and in a written form;
2. The ability to communicate an understanding of the core content of your research area;
3. Scientific writing skills.

If the student fails this part of the qualifying examination, one additional attempt will be allowed. In this case, the student has to retake the exam within *six months* from the date of the original oral examination. The second unsuccessful trial will lead to the student's dismissal from the PhD program.

### 5.5 Preliminary Oral Examination

PhD candidates will present their proposed dissertation research as part of their Preliminary Examination. This formal seminar is to be a presentation of their planned research and a review of the literature supporting this plan. In preparation for the Preliminary Examination, the student will prepare a written dissertation proposal and present this written proposal to their doctoral committee at least two weeks prior to the exam. This proposal will include a thorough literature review, an outline of the proposed research project, and a description of the importance of the research with a perspective on the current state of the area of specialty.

As a means for giving the student's committee an early chance to help direct the doctoral research, the preliminary examination will start with the student presenting their written dissertation proposal and their proposed research direction. This will be a 30 minute (or amount of time determined by the major professor) presentation by the student on his/her proposed research. The committee will then discuss this research proposal with the student. The discussion is meant to identify strengths and weaknesses within the student's preparation and proposal. It is intended to be a constructive critique of the progress achieved to date, as well as to provide focus for the student's research. The oral preliminary examination will be scheduled for a minimum of two hours.

The remaining portion of the examination will focus on the student's basic understanding of Nuclear Engineering or Health Physics (as covered in the qualifying examination) and the minor area(s), as well as all of the courses that the student has taken at OSU.

At least one complete academic term must elapse between the time of the preliminary oral examination and the final oral examination. If more than five years elapse between these two examinations, the candidate will be required to take another Preliminary Examination.

### 5.6 Doctoral Dissertation

The dissertation should be a significant research contribution publishable in a recognized professional journal and should demonstrate the student's competence in conducting fundamental research. It must represent a significant contribution to the existing body of knowledge in Nuclear Engineering or Health Physics. The research topic must be approved by the student's Graduate Committee and the dissertation title must be approved by the Graduate School. The dissertation must be based on the candidate's own investigation,

show a mastery of the literature of the subject, and be written in credible literary form. In order to have the efforts of the student recognized outside of OSU, the student must, in addition to dissertation requirements, prepare a paper which is suitable for submission to a recognized, scientific peer-reviewed journal. A final draft of the dissertation must be presented to the student's doctoral committee at least two weeks prior to the final oral examination. A [Thesis Guide](#) is available at the Graduate School website that provides detailed formatting criteria and templates.

## 5.7 Final Oral Examinations

The dissertation defense will be scheduled for two hours. The student is expected to defend his/her dissertation research and display a mastery of knowledge in his/her chosen field.

## 5.8 Doctoral Degree Progression and Deadlines

The Graduate School maintains a [Doctoral Degree Flowchart](#) required to obtain the PhD degree.

Please refer to the [Doctoral Student Timeline](#) that includes additional links to details regarding committee formation, program of study, initial program meeting, scheduling your oral examinations, application to graduate, and submission of your final dissertation. Or, watch their 8-minute [Video Tutorial](#). Doctoral students' work must be completed within nine years, including coursework, dissertation, and all examinations.

PhD students should be familiar with the specific and detailed information contained in the OSU Catalog and the Graduate School website, as well as NSE requirements. Note that in addition to the Graduate School timeline, NSE requires the successful completion of your Qualifying Exam (Parts 1 and 2) prior to scheduling your Preliminary Oral Exam. Program meetings, preliminary oral exams, and final oral exams may be scheduled only during periods when classes are in session (including finals week).

### 5.8.1 Notes About Program of Study

The Doctoral ([Digital](#)) [Program of Study](#) will remain in draft form until after your initial Program Meeting. You should work with your major professor to fill out the draft Program of Study form. Once your entire committee approves the proposed Program of Study, you can electronically submit for the form signatures through DocuSign, which is routed to the Graduate School for approval.

For various reasons, differences often occur between the classes you plan to take and what you actually end up taking to earn your degree. When you graduate, the Program of Study must be 100% accurate. You should compare the Program of Study on file with your transcripts, which can be viewed by logging into Student Online Services. Make corrections by filling out the [Petition to Change the Program of Study form](#) at least one term before you plan to defend. You do not have to fill it out each time you deviate from your original program; however, you need to keep your committee informed of any and all changes since they must approve your final Program.

### 5.8.2 Notes about Scheduling & Graduating

Give yourself and your committee members a lot of time to plan for the defense date. Sometimes committee members will be on sabbatical leave during the term in which you plan to defend. You should check with your committee members about such leaves far in advance to make better plans. Planning ahead is especially important, if you need to change a committee member for any reason. Please refer to [Committee Meeting Scheduling Tips](#) for additional best practices.

The [Diploma Application](#) must be filed no later than week two of the term in which you defend. However, it is okay to fill out the form a term or two early. If you need to change your end term after you fill out the Diploma Application, just fill out the application again.

When you confirm your defense exam date with the Graduate School, you are essentially placing your exam on their calendar. If they are not aware of your defense date, even if you filled out all the paperwork, you will not be able to defend and will have to reschedule.

It is important to refer to the Graduate School's [Thesis Guide](#), which explains the specific formatting criteria. Students are encouraged to review the site before starting to write the thesis to ensure understanding of the formatting, procedures, and deadlines.