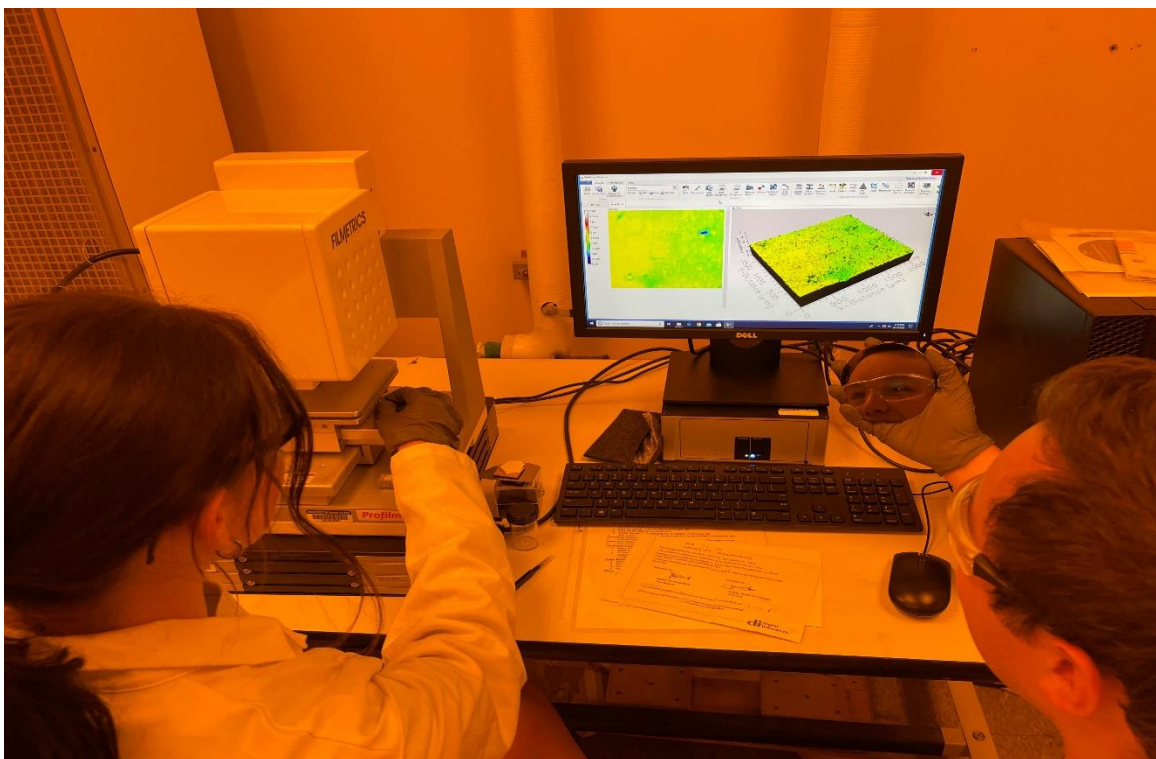


THE
UNIVERSITY
OF RHODE ISLAND



Masters (MS) in Chemical Engineering
Doctor of Philosophy (PhD) in Chemical Engineering

Graduate Student Handbook

FALL 2024 – SPRING 2025

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Program Introduction

Welcome to the University of Rhode Island, graduate program in Chemical Engineering.

Program Objectives

1. Prepare graduates to deliver accurate engineering analyses and assessments that withstand technical scrutiny.
2. Produce graduates with the ability to carry out research and development that deploys principles of Chemical Engineering.
3. Enable graduates to acquire breadth of knowledge in subfield(s) that apply Chemical Engineering principles.

Program Outcomes

1. Students will demonstrate deep knowledge of the nuances that underlie broad-level core fundamentals of Chemical Engineering.
 - o Students will defend research methodology, results, and interpretations at the levels required for peer-reviewed publications in technical journals.
2. Students will conduct research that deploys principles of Chemical Engineering.
 - o Students will produce manuscripts that document their research for peer-reviewed journals and/or patents.
3. Students will demonstrate advanced knowledge in topics beyond the core Chemical Engineering fields.
 - o Students will integrate and apply Chemical Engineering knowledge beyond the core fields.

Purpose of this Guide

This guide is intended to assist graduate students and faculty to proceed through the University requirements with as much ease as possible. This guide is meant to be a supplement to the [Graduate Catalog](#) and [Graduate Manual](#). The Graduate Catalog and the Manual will supersede this document.

Useful Links

Graduate Manual: <https://web.uri.edu/graduate-manual/>

Forms: <https://web.uri.edu/graduate-school/forms/>

Deadlines: <https://web.uri.edu/graduate-school/academics/academic-calendar/>

Catalog: <https://web.uri.edu/catalog/graduate-degree-program-descriptions/>

Enrollment Services: <https://web.uri.edu/enrollment/>

Academic Calendars: <https://web.uri.edu/enrollment/academic-calendars/>

Graduate Student Association: <https://web.uri.edu/gsa/>

Graduate Students United: <https://www.urigau.org/>

Program Descriptions

Current Research Areas and Faculty

Human Disease Treatment and Detection

- Advanced drug delivery and formulation: Dr. Irene Andreu, Dr. Geoffrey D. Bothun, Dr. Samantha Meenach and Dr. Jyothi Menon
- In vivo and wearable nanosensors: Dr. Daniel Roxbury
- Medical devices and treatment: Dr. Geoffrey D. Bothun

Engineering Better Materials: Dr. Arijit Bose, Dr. Geoffrey D. Bothun, Dr. Michael L. Greenfield, Dr. Otto Gregory and Dr. Ryan Poling-Skutvik

Energy Storage: Dr. Arijit Bose

Detecting Environmental Pollutants and Environmental Sensors: Dr. Geoffrey D. Bothun, Dr. Otto J. Gregory, Dr. Daniel Roxbury

Explosives Detection: Dr. Otto J. Gregory

Computational Modeling and Molecule Interaction - Simulation of polymers, fluids, and bioprocesses: Dr. Michael L. Greenfield,

Microplastics and nanomaterials in the environment: Dr. Irene Andreu, Dr. Arijit Bose, Dr. Geoffrey D. Bothun, Dr. Daniel Roxbury

Specializations

- *Biochemical Engineering*
- *Bionanotechnology*
- *Energy Engineering*
- *Environmental Engineering*
- *Materials Engineering*
- *Pharmaceutical Engineering*
- *Polymer Engineering*
- *Process Simulation*
- *Surface, Interfacial & Colloidal Phenomena.*

Master of Science

Thesis & Non-Thesis Option and ABM

Timeline

It usually takes 2 years to complete an M.S. degree. However, the Graduate School allows up to 5 years, not including Leaves of Absence approved by the Graduate School, to complete your M.S. degree. Students are required to maintain continuous registration until graduation. pursuing an Accelerated Bachelor's / Master's Program (ABM) have a different time line.

Accelerated Bachelor's / Master's Program (ABM)

The Accelerated Bachelor's/Master's program in Chemical Engineering at URI satisfies both the B.S. and M.S. requirements in full and allows for undergraduate courses to be applied and count for up to one-third of the total credits required in the master's program. Students may also transfer up to one-fifth of the required master's credits of advanced standing credits not counted towards the B.S. For example, in a 30-credit program, 10 credits can be counted from the B.S. degree requirements and an additional 6 advanced standing credits can be transferred. Only 500 and 600-level courses, as well as 400-level courses designated for graduate credit, can be applied towards a M.S. degree. Students must complete the requirements for their M.S. by the end of their additional year – failure to do so will negate the option to apply one-third of the credits taken during a B.S. The URI Chemical Engineering ABM program is governed by “Appendix K” of the [URI Graduate School Manual](#). For detailed timeline information, see Appendix E of this handbook.

Course Work Requirements

Graduate Students are responsible to check for most up-to-date information in the graduate school catalog.

Graduate Seminar Registration and Attendance Requirement

MS and PhD graduate students are required to register for seminar once per academic year. All students are required to attend and participate in Graduate Seminar courses (CHE 501/502) every semester seminar is offered - irrespective of whether they are enrolled for credit. Specialization requirements may vary, and you can request exceptions from the Graduate Program Director.

Petitioning

Under special circumstances, appropriate courses that are not on the list may be petitioned for use as a core requirement. Email petitions are preferable. The Graduate Program Director will evaluate such requests.

Program of Study (thesis and non-thesis)

A program of study form, signed by the student, major professor, and the Graduate Program Director or Department Chair, should be completed and submitted to the Dean of the Graduate School by all students after completing one semester of full-time study. It is ideal to complete one's program of study as soon as possible, and no later than the end of the second semester. [Graduate School Forms](#)

Thesis Requirement

A thesis is required for all full-time and part-time students. A total of 9 credit hours under CHE 599 are required for the thesis research program; however, additional credits may also be taken appropriate to any remaining research to be completed. The number of credit hours given each semester is variable and is determined in consultation with the major professor.

Thesis Committee

A thesis committee consisting of at least three graduate faculty members (including the major professor) must be established for each student. One member of this committee must be from another department. PLEASE SEE DIAGRAM IN APPENDIX B (page 22).

Establishment of a graduate program committee form

(<https://web.uri.edu/graduate-school/forms/>) is used to finalize your selection.

The M.S. program component requires 30 credits, which are detailed below for **Thesis** and **Non-Thesis** options. Additional information can be found on the [department website](#).

THESIS OPTION	NON-THESIS OPTION
Required courses (9 credits) <ul style="list-style-type: none"> CHE 503: Dynamics of Chemical Engineering Applications CHE 513: Advanced Chemical Engineering Thermodynamics CHE 541: Advanced Transport Phenomena 	Required courses (9-12 credits) <ul style="list-style-type: none"> CHE 503: Dynamics of Chemical Engineering Applications CHE 513: Advanced Chemical Engineering Thermodynamics CHE 541: Advanced Transport Phenomena CHE 591 or 592: Special Problems (3-6 credits culminating in a comprehensive report with oral examination)
Elective courses (9-15 credits) <ul style="list-style-type: none"> Up to 6 credits of 400-level courses designed "for graduate credit" Remainder of credits must be 500-level or 600-level courses 	Elective courses (18-21 credits) <ul style="list-style-type: none"> Up to 6 credits of 400-level courses designed "for graduate credit" Remainder of credits must be 500-level or 600-level courses
Required but not for program credit <ul style="list-style-type: none"> CHE 501: Graduate Seminar (fall) CHE 502: Graduate Seminar (spring) 	Required but not for program credit <ul style="list-style-type: none"> CHE 501: Graduate Seminar (fall) CHE 502: Graduate Seminar (spring)
MS Thesis Research (6-12 credits)	
(Optional, ABM Specific) Applying ("Double-counting") one-third from advanced B.S. credits <ul style="list-style-type: none"> Up to 10 credits of elective courses designated "for graduate credit" CHE 491/492 are not allowed 	
(Optional) Transferring one-fifth from advanced B.S. credits <ul style="list-style-type: none"> Up to 6 credits of elective courses designated "for graduate credit" CHE 491/492 are not allowed 	

Thesis Proposal

In the first semester of research activity, a thesis proposal must be prepared that describes the proposed research. The thesis proposal is approved by the major professor and the thesis committee before it is submitted to the graduate school using the proposal approval form. (<https://web.uri.edu/graduate-school/forms/>).

Typical proposals are 15 pages double spaced and include sections:

- Title of the Study
- Statement of the Problem
- Justification or Significance of the Study
- Methodology or Procedures
- Resources Required
- Literature Cited

If an IRB or IBC or other protocol is necessary, it is the responsibility of the student and major professor to make sure the guidelines are correctly followed. (<https://web.uri.edu/graduate-manual/degree-requirements/>)

Thesis and Oral Defense

A written thesis document and a formal thesis defense are required for PhD candidates. The thesis document must demonstrate a student's ability to report research in a concise, academic format. For requirements and instructions regarding the specific format and expectations for written theses, please consult sections 11.12-11.16 in the *Graduate School Manual* (<https://web.uri.edu/graduate-manual/theses-and-dissertation/>). The oral defense of one's thesis (to schedule defense one needs to file a request to schedule an oral defense form <https://web.uri.edu/graduate-school/forms/>) is a two-hour examination to be approved by the thesis defense committee and reported on the results of MS oral exam form. If any revisions to the thesis were required, the student needs to also submit the certification that corrections were made from.

Non-thesis Requirement

For the non-thesis Master's degree, a special projects experience (e.g. major paper, written technical report, review article) approved by a faculty advisor and Chemical Engineering Graduate Program Director is required.

Nomination to Graduate (both Thesis and Non-thesis requirement)

During the final semester, the major professor must prepare and submit a nomination to graduate form (<https://web.uri.edu/graduate-school/forms/>) for a student to graduate that semester.

Forms Submitted

The following list names the major items that must be approved and on file at the Graduate School. The forms for each of these and many other related items may be obtained from the Graduate School's website at: <https://web.uri.edu/graduate-school/forms/>

Summation of Master's Forms

Thesis:

Establishment of a Master's Committee
Program of Study Master's Thesis
Thesis Proposal Approval Form
Request to Schedule an Oral Defense of a Master's Thesis
Nomination for Graduation – Master's Degree

Non-Thesis:

Program of Study
Nomination for Graduation

Doctor of Philosophy

Admission Policy

Admission into the Ph.D. program requires a bachelor's or master's degree in chemical engineering; candidates from other engineering fields or from mathematics, biology, chemistry, or physics may be accepted into the program with possible addition of prerequisite courses.

A PhD qualifying examination is required for candidates accepted without the master's degree.

Timeline

It usually takes 3.5-4 years to complete a Ph.D. degree for students with a master's degree. It usually takes 4.5-5 years to complete a Ph.D. degree for students without a master's degree. However, the Graduate School allows up to 7 years, not including Leaves of Absence approved by the Graduate School, to complete your Ph.D. degree. Students are required to maintain continuous registration until graduation. For additional timeline information, refer to Appendix F.

Course Work Requirements

Graduate Students are responsible to check for most up-to-date information in the Graduate School Catalog.

PhD Qualifying Exam

- The goal of the qualifying exam is for a new Ph.D. student to demonstrate sufficient capability and preparation to conduct research.
- This is generally taken by the end of the first complete year of graduate study.
- Students will prepare a literature survey that motivates their thesis research. This written document will include describing connections between their research area and mainstream chemical engineering ideas, such as those learned in undergraduate courses.
- The literature survey will serve as a written portion of the qualifying exam.
- The student will present their literature survey to their thesis committee. Answering committee questions about the connections between their literature survey and mainstream ideas of Chemical Engineering will serve as an oral portion of the Qualifying exam.
- Result will be a Pass/Fail. If Fail, student gets one more chance at the start of semester 3. If student fails again, then they complete a non-thesis MS in that semester and leave the Ph.D. program.

Please be aware, graduate students admitted to the Ph.D. program who already have an M.S. degree shall not normally be required to take the Ph.D. Qualifying Examinations. However, such students may be required to take the exam if their committee so

recommends within a period of up to two years from admission to the Ph.D. Program.

Students transferring credits from M.S. Degree

Doctoral students entering with a master's degree will transfer 30 credits towards the required program total of 64 credits. The remaining 34 credits are split evenly between coursework and research (i.e. 17 credits of coursework including 2 credits of CHE 501/502 seminar and 17 credits of CHE 699).

For students who hold a master's degree, only 500- and 600-level courses can be counted toward the doctoral program per section 9.21 of the URI Graduate School Manual (<https://web.uri.edu/graduate-manual/distribution-of-courses/>).

Graduate Seminar Registration and Attendance Requirement

MS and PhD graduate students are required to register for and attend CHE 501 and CHE 502 seminar once in their graduate studies. Beyond this, all full-time graduate students are required to attend seminar every semester, irrespective of whether they are enrolled for credit.

Petitioning

Under special circumstances, appropriate courses that are not on the list may be petitioned for use as a core requirement. Email petitions are preferable. The Graduate Program Director will evaluate such requests.

Doctoral Committee Selection

A doctoral committee must be established for each Ph.D. candidate. This committee must consist of at least three faculty members (including the major professor), one member of which must be from another department. This committee should be selected within the first semester of graduate study and will supervise the candidate's entire program of study. Establishment of a doctoral committee form (<https://web.uri.edu/graduate-school/forms/>) needs to be filed with the Dean of the Graduate School. Please note that the committee's composition can change during a student's tenure, as needed.

Program of Study

A doctoral program of study form (<https://web.uri.edu/graduate-school/forms/>), signed by the student, major professor, and the Graduate Program Director or Department Chair, should be completed (electronic form is preferred) and submitted to the Dean of the Graduate School by all students after completing one semester of full-time study (or 6-9 credits of part-time study). It is ideal to complete one's program of study as soon as possible, and no later than the end of the second semester.

Research in Ethics Training

URI utilizes Collaborative Institutional Training Initiative ([CITI](#)) for online regulatory compliance training. Courses are offered in human subjects protection, animal care and use, financial conflict of interest, export controls, responsible conduct of research, and biosafety. To access the courses, first create a free account with CITI, affiliate with the

University of Rhode Island as part of the account set-up, then select the course(s) you wish to complete. For more information on how to navigate the CITI website, please refer to the [URI CITI Guidance](#).

Dissertation Proposal

A dissertation proposal, which is required for all doctoral students, must serve to concisely and clearly describe a problem that will be investigated through research, as well as how this research will be performed and reported. For comprehensive detail and guidance regarding your thesis proposal, please refer to [Theses Dissertation Process: From Proposal to Defense](#), which is published by the Graduate School. Proposals should be submitted before substantial research has been completed, typically during the first or second semester in which the student registers for research credits. The dissertation proposal should be submitted before the comprehensive examination (see below). The proposal should be approved by the major professor and the doctoral committee before submittal to the graduate school using the dissertation proposal approval form (<https://web.uri.edu/graduate-school/forms/>). For details concerning format requirements for the proposal, please consult section 7.56 in the Graduate School Manual online. <https://web.uri.edu/graduate-manual/degree-requirements/#section757>

Comprehensive Examination

The comprehensive exam should ideally be taken at the end of the 4th semester, but no later than the end of the 6th semester of full-time graduate study. Extensions to the comprehensive exam timing can be requested by the major professor in writing to the Graduate Program Director and will be granted when extenuating circumstances exist.

- This exam will be related to the student's thesis topic. The exam contains (a) a written part, consisting of preliminary data as well as the detailed thesis proposal, and (b) an oral defense, to be held shortly after passing the written exam. The committee can decide to conduct a re-examination if appropriate, within timing constraints imposed by the Graduate School. A student who fails the comprehensive exam can do a MS (non-thesis or thesis) to be completed within a semester and must leave the Ph.D. program.
- The examination committee will consist of the thesis committee and an additional member from outside of the department.
- Students can often use their proposal as the written portion of the exam

Thesis Committee Meetings

On a yearly basis, the doctoral candidate should update their dissertation committee on their research progress in an oral presentation format. These informal meetings do not need to occur in years where the qualifying examination, comprehensive examination, or PhD defense occur.

Dissertation Research Requirements

A dissertation is required for all Ph.D. candidates. Refer to the Graduate School Website for detailed information. <https://web.uri.edu/graduate-manual/theses-and-dissertation/>

Dissertation and Oral Defense

A written dissertation document is normally submitted around the beginning of a student's final semester. The dissertation document must demonstrate a student's ability to report research in a concise and academic format. For requirements and instructions regarding the specific format and expectations for written dissertations, please consult sections 11.12-11.16 in the [Graduate School Manual Theses and Dissertation Preparation and Approval](#). The oral defense of one's dissertation (to schedule defense one needs to file a request to schedule an oral defense form - <https://web.uri.edu/graduate-school/forms/>) is a two-hour examination presented before the dissertation defense committee (composed of the doctoral committee and one additional member (please see appendix). It needs to be scheduled using the request to schedule the oral defense form (<https://web.uri.edu/graduate-school/forms/>). Consult section 7.58.1 in the *Graduate Manual* for more information <https://web.uri.edu/graduate-manual/degree-requirements/#section757>. If any revisions to the dissertation are required, they must be certified using the above form.

Nomination to Graduate

At the start of final semester, the major professor must prepare and submit a nomination to graduate form (<https://web.uri.edu/graduate-school/forms/>) for a student to graduate that semester. If the student is unable to make the deadlines, the student should check with the Graduate School that their nomination is "rolled" over to the next semester.

Summation of Doctoral Forms

Establishment of a Doctoral Committee
Program of Study – PhD
Results of Written Doctoral Comprehensive Examination
Request to Schedule the Oral Doctoral Comprehensive Examination
Dissertation Proposal Approval Form
Request to schedule an oral defense of a PhD's dissertation
Nomination for Graduation - PhD

Policies and Procedures

General Requirements

It is required that all graduate students in the Chemical Engineering maintain the highest ethical standards in the conduct of their academic studies and research endeavors, as well as make themselves fully aware of and comply with all Graduate School and College requirements.

Office Space/keys

Every Graduate Student is assigned to a specific room for consuming food and beverages as well as studying. If a building/laboratory key is necessary, this can be requested.

Bi- Annual Audit Meetings

In order to provide ample support for your degree pursuit, each graduate student is required to attend two meetings per year with the Graduate Student Administrative Coordinator. These meetings are typically held in May/June and in January. The purpose of these meetings is to review your progress and identify next steps with regard to forms and other administrative components of your degree.

Selection of Major Professor and Committee

The Major Professor shall supervise research, monitor course work, mentor, encourage, and foster the intellectual development of the student. However, responsibility for conformity to all departmental and graduate school regulations is the responsibility of the student.

Advisor-advisee matches are made by the graduate committee within the first two weeks of the first semester of graduate study, i.e. the add/drop deadline with permission number. Prior to this, new graduate students should meet with all faculty that are accepting students. The graduate committee shall then request the rankings from both the students and the potential advisors. Efforts will be made where it is deemed appropriate to match the student to their top 1st or 2nd choice.

Switching Major Professor/Research Laboratories

It should be clear that flexibility is provided in the program of master's and doctoral students. Committee membership (even the major professor) may be changed when this is in the best interest of the student. A student may change their major professor with the approval of both current and future research advisors, the Department Chair/Graduate Director, and the Dean of the Graduate School. For detailed information, please see section 8.50 in the graduate manual <https://web.uri.edu/graduate-manual/committees/#section850>.

Research

Both the thesis-M.S. and Ph.D. degrees require completion of the student's research project(s) and a written thesis/dissertation. The thesis/dissertation will be submitted in accordance with Graduate School requirements. See the above MS/PhD sections for detailed information.

Registration Requirements

Full time status for a graduate student is 12 credits. This is generally required for international students to maintain their student visa. Students may register for up to 15 credits per semester. Please refer to the registration section in the graduate manual, <https://web.uri.edu/graduate-manual/registration/>. For related forms, please use this link: <https://web.uri.edu/graduate-school/forms/>.

- Last Semester Status: 'LSS', Only for Domestic students. Can be reported as full-time degree students on their last semester of their degree program. Must register for a minimum of 1 credit. Not eligible for an assistantship but can be paid on an hourly basis.
- Reduced Course Load: 'RCL', Only for International Students. Can be reported as full-time

degree students for any one semester only throughout their graduate school period. Must register for a minimum of 1 credit. Not eligible for an assistantship.

- ABD - 'All But Dissertation', For Domestic and International Doctoral students who have completed all comprehensive exams, required courses, submitted their research proposal, and other program specific requirements. Charged per credit hour and must register for a minimum of 3 credits. Eligible for an assistantship. Students can be on ABD for up to 4 semesters.

Scholastic Standing

Acceptable Grades: Graduate Manual, 10.10 (<https://web.uri.edu/graduate-manual/scholastic-standing/>): Graduate work will be evaluated by letter grades, with only grades of B- or better carrying graduate credit for courses at the 400 level. A graduate student who does not achieve this minimum grade must either retake the course and earn a B- or better in it or take in its place a course approved by the major professor or program committee. In courses numbered 500 or above, grades of C or better shall be credited toward the degree. Any such course in the Program of Study in which a student receives a grade lower than C shall be retaken or replaced by a course approved by the major professor and the program committee and by the Dean of the Graduate School.

Acceptable Average: To qualify for continuation of degree student status and for graduation, a cumulative average of B (3.00 on a 4.00 scale) in all work is required. At any time when the academic record indicates unsatisfactory performance, the student's status is subject to review. A student who fails to maintain a satisfactory grade point average or make acceptable progress towards the degree may be dismissed from the program.

Financial Policy

Financial Support

The Chemical Engineering has a limited number of Graduate Teaching Assistants (GTAs) awarded yearly.

In addition, students may be supported as a Graduate Research Assistant (GRA) or hourly payroll by their Major Professor. The extent of that support is to be determined by the Major Professor in accordance with Graduate School requirements.

Summer graduate student support is generally not provided by the College, the possibility of such support is the purview of the Major Professor.

Financial support is provided on an annual basis. The College does not guarantee support for a student's entire duration of graduate study. Continuing support is dependent upon availability of funds, suitable student progress toward their degree and satisfactory performance by the graduate student in their Graduate Teaching Assistantship duties and/or Graduate Research Assistant duties and/or Fellowships.

Awarding of Teaching Assistantships

The primary goal in the awarding of Teaching Assistantships (TA) in Chemical Engineering is to appoint suitably qualified graduate students to assist in our college's teaching activities. The TAs also provide financial assistance to the graduate student.

It is the responsibility of the Graduate Director to award TAs to graduate students. The Graduate Program Committee will provide advice as needed.

The duration of these assistantships for MS students will be a maximum of 2.0 semesters as full (1.0) TA, while Ph.D. students may hold a TA for a maximum of 4.0 semesters as full TA. No graduate student will have a TA for more than 4.0 semesters. Students on academic probation will not be eligible for college funded teaching assistantships.

The following factors will be examined when making assistantship appointment decisions:

- Commitments for TAs made to incoming faculty (startup agreements).
- Ability of a faculty member to support a TA's research projects.
- Potential for partial funding of a TA with faculty research grant funds.

TAs are awarded each semester and may be renewed based upon appropriate University funding, Chemical Engineering needs, a high level of performance by the student in their TA duties and suitable student progress towards their degree.

TAs are expected to be proficient in the English language and meet all University requirements regarding communication in English.

TAs must be available for their assignments during the entire time period for which they are being paid as set by the Graduate School.

Graduate Awards

Enhancement of Graduate Research Awards (EGRA) (<https://web.uri.edu/graduate-school/funding/egra/>) and Research and Scholarship Excellence Graduate Student Awards (<https://web.uri.edu/research-admin/externalrelations/excellence/>) support and recognize graduate student's achievement in scholarly or creative activities.

Additional Information

Academic Enhancement Center

The Academic Enhancement Center houses the University's writing center and learning assistance program, as well as many other academic support services such as tutoring, study groups, and multiple forms of academic assistance workshops. For more information about available resources, go to www.uri.edu/aec, call 874-2367, or stop by the fourth floor in Roosevelt Hall.

Graduate Professional Development Activities, Programs, and Resources

The Graduate School supports graduate students in achieving their academic, professional, and career goals by providing several opportunities and assistance through various activities, events, programs, and resources. These include Graduate Writing Center, Office of Career and Professional Development, Graduate Success Coaching Center, and Diversity and Inclusion Badge Program. More details are found here: <https://web.uri.edu/graduate-school/professional-development/>

Graduate Student Success Coaching

The Graduate School provides students with Success Coaching to help them with their time management, scheduling, planning, and overcoming obstacles to succeed in graduate school. Details are found here: <https://web.uri.edu/graduate-school/graduate-student-success-coaching/>

Graduate Writing Center

The [Graduate Writing Center](#) provides writing support to all URI doctoral and master's students to foster the continuing development of academic and professional writing skills necessary to succeed in graduate programs and academic or professional careers.

Library Resources

The University of Rhode Island takes pride in the outstanding quality of its libraries. They offer a 24-hour room for group studying, study labs for quiet studying, as well as a fantastic on-line resource center. For assistance: <https://web.uri.edu/library/>.

The Office of Disability, Access, and Inclusion

Any student with a documented disability is welcome to contact their instructor early in the semester so that we may work out reasonable accommodations to support their success in courses. Students should also contact Disability Services for Students, Office of Student Life, 330 Memorial Union, 401-874-2098 (<https://web.uri.edu/disability/>).

URI Bias Response Team

Each member of the University community has a responsibility to foster an environment of acceptance, mutual respect and understanding. If you are a target or a witness of a bias incident, you are encouraged to contact the URI Bias Response Team (<https://web.uri.edu/brt/>).

Affirmative Action

The Office of Equal Opportunity leads and promotes the University of Rhode Island's commitment to equal opportunity; and functions as a support mechanism for the administration, faculty, staff, and students. The Office of Equal Opportunity assists with the development, implementation and maintenance of various programs and policies such as: sexual harassment/harassment prevention training, diversity, discrimination, the Americans with Disabilities Act and Title IX; all of which furthers the University's commitment to maintaining a campus free of harassment and discrimination. For more information please visit, <https://web.uri.edu/equal-opportunity/>

Counseling Center

If your success in this program is being impacted by stress, mental health, personal or family issues, the University offers counseling services for students. You can call the counseling center at 401-874-2288 or visit 217 Roosevelt Hall. Their hours are Monday to Friday 10am – 3pm; appointments are both virtual and in-person. If there is an emergency call after hours and you can talk with a counselor on the telephone. Details are available here:

<https://web.uri.edu/counseling/>

The URI Counseling Center has partnered with My Student Support Program (MySSP) to offer a full range of mental health and wellness services for students, including 24/7 real-time support via chat and phone. Details are available here: <https://web.uri.edu/counseling/myssp/>

Health Services

URI Health Services provides a wide range of care that addresses student's physical and mental health and wellness. <https://web.uri.edu/healthservices/>

Psychological Consultation Center (PCC)

PCC is a training clinic that provides services to individuals and families for mental health conditions, behavior problems, and a variety of other issues. <https://web.uri.edu/pcc/>

URI Substance Abuse Prevention Services

<https://web.uri.edu/substance-abuse/update/>

Couple and Family Therapy Clinic

This clinic offers specialized expertise in relationship and family issues.

<https://web.uri.edu/cftclinic/>

Hardship Assistance – Rhody Outpost

Rhody Outpost provides URI students who are food insecure with emergency food services and resources. Rhody Outpost Food Pantry is currently located at the Dining Services Warehouse, 10 Tootell Road, Kingston, RI. Contact details are available here:

<https://web.uri.edu/rhody-outpost/>. Please contact the Office of Vice President for Student Affairs at 401-874-2427 for help with emergency housing.

Violence Prevention & Advocacy Services (VPAS)

VPAS provides students with support, advocacy, information and resources against sexual violence and harassment, relationship violence and stalking. Details are found here: <https://web.uri.edu/graduate-school/violence-prevention-and-advocacy-services/>

Safety

All students are expected to be mature and responsible individuals who will comply with all GLP, GMP and other appropriate safety, environmental, and data protection regulations. For detailed instructions, please refer to the Environmental Health and Safety website: <https://web.uri.edu/ehs/>. Students must be certified by the Environmental Health and Safety to work in the laboratories. Please check with your major professor for detailed regulations.

Students working in laboratories at night or weekends shall use a buddy system i.e., there shall always be at least one person closely available who can be called for help shall an emergency arise. Safety is the number one priority in the Chemical Engineering.

Campus Events, Community Activities, and Wellness Opportunities

Various events, community activities, and wellness opportunities are available at URI that include classes, workshops, lectures, and presentations. Details are found here: <https://events.uri.edu/calendar>

Multicultural Center

The URI Multicultural Student Services Center serves students from historically marginalized communities, including but not limited to race, gender, ethnicity, national origin, sexual orientation, and religious minority. The Multicultural Student Services Center promotes access, equity and individual growth for traditionally underserved students and collaborates with campus partners to provide developmentally appropriate programs and building resources which connect and support the URI community in becoming just and culturally competent global citizens who inspire hope for the future, <https://web.uri.edu/mcc/>

Recreational Center

The driving force in leading the URI Community to “be active, be well, and belong” the campus recreation center enriches the URI Community through diverse, recreational opportunities. Driven to inspire a sense of belonging and to promote a life-long commitment to holistic well-being. Our facilities are open to all URI students/faculty/staff and community members with a Campus Rec Membership. The Anna Fascitelli Fitness and Wellness center, Outdoor Recreation Fields, Sailing Center, Keaney Complex and gymnasium, Mackal Field House, and the Tootel Aquatic Center including a diving, lap, and warm pool. For more information about the available facilities, <https://web.uri.edu/campusrec/facilities/>

Religious Organizations

URI is rich with religious diversity, to learn more about worship opportunities on campus click on the link below to explore the URI Chaplains Association website to see all offerings, <https://web.uri.edu/chaplains/>

Gender and Sexuality Center

The University of Rhode Island's Gender and Sexuality Center, located at 19 Upper College Road, Kingston, RI 02881, is a cultural department that allows students, faculty, and staff to explore and affirm their multiple and intersecting identities, especially surrounding gender and sexuality. The Gender and Sexuality Center prides itself on providing Education, Engagement, and Support for the URI campus community and beyond. Education programs allow the entire URI community to explore concepts related to LGBTQ people and issues.

Engagement programs provide an opportunity for people to meet and create meaningful relationships with each other. Finally, Support programs give students, faculty, and staff a place and time to receive and offer the benefit of community support for whatever issues our community member's encounter. Learn more by exploring their website

<https://web.uri.edu/gender-sexuality/>

Student Organizations

There are multiple clubs and organizations to get involved with on campus. The Chemical Engineering student organization link is <https://web.uri.edu/pharmacy/students/student-organizations/>. Two other resources below are curated by The Memorial Union and The URI Website of all the available options and how to get involved.

Memorial Union: <https://urinvolved.uri.edu/organizations>

URI Website: <https://web.uri.edu/studentinvolvement/student-groups/student-organizations/>

Places to Eat on Campus

URI offers numerous dining hall, cafe, and restaurant options that cater to both students with and without dining hall plans. Explore below the on-campus offerings,

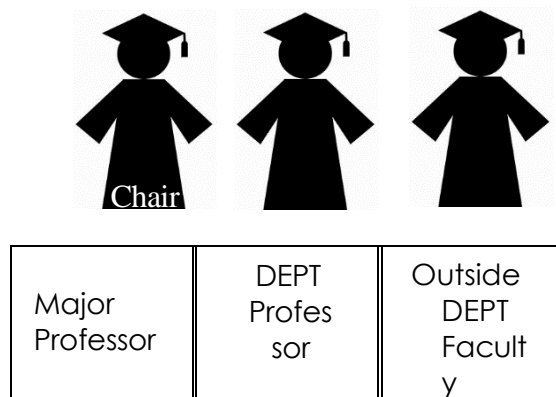
https://events.uri.edu/search/places?business_types%5B%5D=37599086720752 The

Emporium is located at 99 Fortin Rd, Kingston, RI 02881, at the top of campus and offers a myriad of restaurants ranging from Dunkin Donuts, to Simply Thai, to International Pockets Café and many more! There is something for everyone at The Emporium.

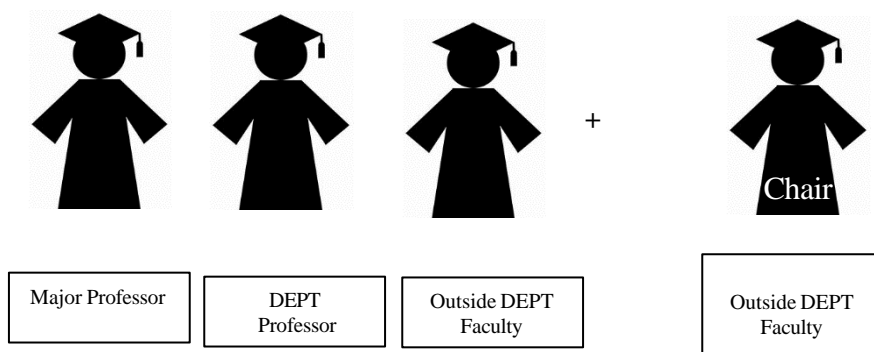
Important Telephone Numbers

Campus Police	401-874-2121 (Emergency); 401-874-4910 (Non-emergency)
Library Resource	401-874-2653
Poison Control	1-800-222-1222
Rescue	401-874-2121
Safety and Risk (chemical): Environmental Health Safety (EHS):	401-874-2591 401-874-7019

Appendix A. MS Committee Diagram



Master's Defense Committee: Minimum 4



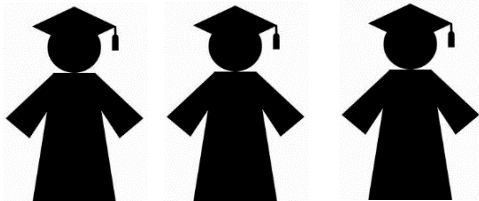
Appendix B. Ph.D. Committee Diagram

Doctoral Committee: Minimum 3 members



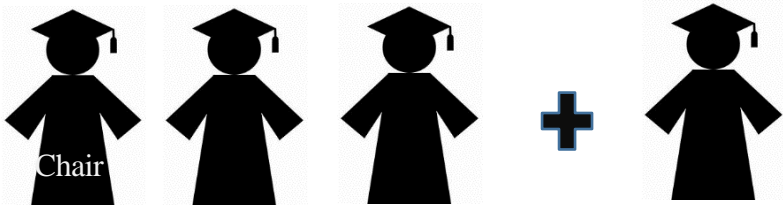
Major Professor	DEPT Professor	Outside DEPT Faculty
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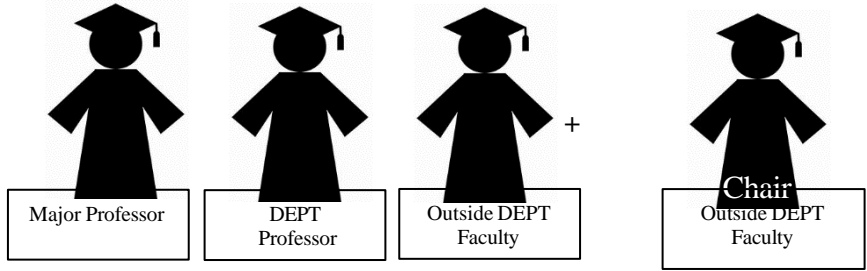
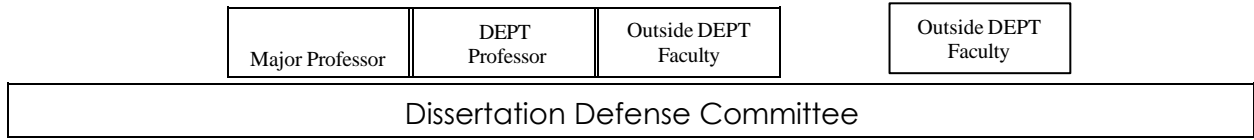
Doctoral Written Comprehensive Examination Committee



Major Professor	DEPT Professor	Outside DEPT Faculty
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Doctoral Oral Comprehensive Examination Committee





Appendix C. Graduate Program Administration

Address	URI Chemical Engineering Fascitelli Center for Advanced Engineering Suite 360
Phone	401-874-2655
Program Support	Claudia Prior, claudia.prior@uri.edu
Fiscal Clerk	Deb Brielmaier, dbrielmaier@uri.edu
Department Chair	Geoffrey D. Bothun, Ph.D., gbothun@uri.edu
Director, Graduate Programs	Daniel Roxbury, Ph.D., roxbury@uri.edu

Appendix D. Graduate Degree Requirements

	Masters	Ph. D.
Program of Study (POS) <ul style="list-style-type: none"> - Select major professor - Develop with major professor - Submit to Graduate Program Director 	1 st semester 2 nd semester 2 nd semester	1 st semester 2 nd semester 2 nd semester
Qualifying Requirements	not required	end of 1 st year
Masters/Doctoral Committee <ul style="list-style-type: none"> - Select committee and submit form 	By end of 1 st semester	By end of 1 st semester
Comprehensive Examinations <ul style="list-style-type: none"> - submit request to department chair 	not required	end of 2 nd year
Thesis/Dissertation Proposal <ul style="list-style-type: none"> - meet with committee - submit final proposal to committee members - submit signed proposal to Graduate School 	prior to submitting proposal / conducting research 14 days prior to submission deadline (2 nd semester) deadline set by Graduate School	prior to submitting proposal / conducting research 14 days prior to submission deadline (4 th semester) deadline set by Graduate School
Thesis/Dissertation Defense <ul style="list-style-type: none"> - meet with committee - submit final thesis/dissertation to committee members - submit request for defense and copies of proposal to Graduate School 	at least once per year 14 days prior to submission deadline deadline set by Graduate School	at least once per year 14 days prior to submission deadline deadline set by Graduate School

Appendix E. Accelerated Bachelors-Masters (ABM)

Sample timeline 1: Thesis Option

Years 1 – 4, undergraduate program – follow curriculum sheets, incorporate 6 credits of CHE 491/492 to begin research, take 4 professional elective courses during years 3 and 4.

3 professional elective courses (9 credits) count towards the M.S.

Year 4-5 summer

3 CHE 599: M.S. Thesis Research

Year 5, fall semester

3 CHE 513: Advanced Chemical Engineering Thermodynamics

3 Professional Elective

3 CHE 599: Thesis research

1 CHE 501: Graduate Seminar

**10 total credits; 9 credits count towards program*

Year 5, spring semester

3 CHE 541: Advanced Transport Phenomena

6 CHE 599: Thesis research

1 CHE 502: CHE seminar

**10 total credits; 9 credits count towards program*

Year 5 spring or summer MS defense

Sample timeline 2: Non-Thesis Option

Years 1 – 4, undergraduate program – follow curriculum sheets, take 4 professional elective courses during years 3 and 4.

3 professional elective courses (9 credits) count towards the M.S.

Year 5, fall semester

3 CHE 513: Advanced Chemical Engineering Thermodynamics

3 Graduate-level Elective Course

3 Graduate-level Elective Course

2 CHE 591: Special Problems

1 CHE 501: Graduate Seminar

**12 total credits; 11 credits count towards program*

Year 5, spring semester

3 CHE 541: Advanced Transport Phenomena

3 Graduate-level Elective Course

4 CHE 592: Special Problems

1 CHE 502 CHE seminar

**11 total credits; 10 credits count towards program*

Year 5 spring Comprehensive report based on CHE 591/592 work with oral examination.

Appendix F. Doctoral Degree Course Timeline

Student without MS entering URI for PhD (Ideal scenario: 4.5 years)

Year 1, Semester 1: CHE 501 (1), CHE 503 (3), CHE 513 (3), CHE 699 (5), Total: 12

Year 1, Semester 2: CHE 502 (1), CHE 541 (3), 1 elective (3), CHE 699 (5), Total: 12

Complete qualifier exam

Year 2, Semester 1: CHE 501 (0), 2 electives (6), CHE 699 (6), Total: 12

Year 2, Semester 2: CHE 502 (0), 1 elective (3), CHE 699 (12), Total: 15*

Complete comprehensive exams

Year 3, Semester 1: **ABD Status** CHE 501 (0), CHE 699 (3), Total: 3

Year 3, Semester 2: **ABD Status** CHE 502 (0), CHE 699 (3), Total: 3

Year 4, Semester 1: **ABD Status** CHE 501 (0), CHE 699 (3), Total: 3

Year 4, Semester 2: **ABD Status** CHE 502 (0), CHE 699 (3), Total: 3

Year 5, Semester 1: **Last semester status (student is hourly)** CHE 699 (1), Total: 1**

Total: 64

*student can register for more than 12 credits per semester (up to 15) with grad school approval

**student is limited to 1 credit on "last semester status"

Student with MS entering URI for PhD (4 years)

Year 1, Semester 1: CHE 501 (1), CHE 503 (3), CHE 513 (3), CHE 699 (5), Total: 12

Year 1, Semester 2: CHE 502 (1), CHE 541 (3), 1 elective (3), CHE 699 (5), Total: 12

Year 2, Semester 1: CHE 501 (0), 1 elective (3), CHE 699 (9), Total: 12

Year 2, Semester 2: CHE 502 (0), CHE 699 (12), Total: 12

Complete comprehensive exams

Year 3, Semester 1: **ABD Status** CHE 501 (0), CHE 699 (3), Total: 3

Year 3, Semester 2: **ABD Status** CHE 502 (0), CHE 699 (3), Total: 3

Year 4, Semester 1: **ABD Status** CHE 501 (0), CHE 699 (3), Total: 3

Year 4, Semester 2: **Last semester status** CHE 502 (0), CHE 699 (1), Total: 1

Total: 58 (only 34 required)

Student with MS from URI continuing on to PhD

There is no language about this particular situation in the course catalog. For such cases, students must fulfill the requirements of the first case, i.e. "Student without MS entering URI". A total of 7 courses should be taken while at URI, 3 core courses and 4 electives. Since the student received the MS degree by taking 5 courses (3 core courses and 2 electives), an additional 2 elective courses will generally be taken. If the student completed 7 courses during their time in the MS program, no additional courses will be required.