



Boston University College of Engineering
Division of Systems Engineering

Masters Handbook 2025-2026

All SE Master's students must adhere to and meet the Masters degree requirements as set forth by the College of Engineering and the Division of Systems Engineering.

[2025 SE Orientation Slides](#)

Index:

Degree Requirements.....	3
Division Contacts	3
Policies and Procedures.....	4
Masters Program Learning Outcomes	4
Career & Professional Development	4
Independent Study and Mentored Project	5
International Students, Reduced Courseload.....	5
Reduced Courseload in Final Semester	5
Thesis Track, Certified Full-Time with Part Time Load:	5
Internship Program Opon: Engineering with Practice.....	6
Masters Degree Specializations	6
1. Masters Thesis Option	6
2. Masters Thesis, Proposal & Committee.....	7
Thesis Committee	7
Special Service Appointment.....	7
Intellectual Property Policy (IPP) Agreement	7
3. Masters Thesis, Finding an Advisor	8
Some useful questions to ask are:.....	8
Research Rotations	8
Who Can Be a Thesis Advisor	8
4. Masters Thesis, Final Presentation	9
Formatting Guidelines	9
Register the Final Thesis Presentation	9
Conduct and Length of the Final Thesis Presentation	10
Assessment.....	10
Reporting	10
5. Masters Thesis, Approval and Library Submission	10
SE Masters Handbook 2025-2026	2

Apply to Graduate	11
Forms	11
Division Forms	11
College of Engineering Forms.....	11
Student Resources	12
Academic Resources	12
Financial Support.....	12
Student Health and Wellness	12
International Student Support	13
IT Support Services	13
Boston University Resource Centers	13
Student Support Services	13
University Support Services.....	13
Policies & Procedures for Handling Sexual Misconduct	14
Community & Networking.....	14

Degree Requirements

All masters students are assigned an academic advisor when entering the program. The Graduate Programs Manager will notify incoming students about their advisor assignment prior to registration. The student's academic advisor can provide general information/guidance and help the student to complete his/her course registration.

- [Masters Program Overview](#)
- [SE MS Program Requirements](#)
- [SE MEng Program Requirements](#)
- [Engineering Practice Option](#)
- [Specialization Option](#)
- MEng and MS Program Planning Sheets can be downloaded from the Forms section, below.

Division Contacts

- Advisor
- Graduate Programs Manager
Alison Krasnor, se@bu.edu, 617-358-0351
15 Saint Mary's Street, Room 119

- Associate Division Head for Graduate Programs
Professor Hua Wang through December 2025
Professor Emiliano Dall’Anese beginning January 2026
- College of Engineering Graduate Programs Office 44 Cummington Mall, Room 114,
enggrad@bu.edu

Policies and Procedures

Policies and Procedures are outlined in the [College of Engineering Graduate Bulletin](#) and the College of Engineering Graduate Programs web pages. Here are some helpful links in the bulletin.

- [Graduate Program Deadlines](#)
- [Attendance, Course, Grade, Degree, Registration and other Policies](#)
- [Student Bereavement](#)
- [Student Records](#)

Masters Program Learning Outcomes

The Division Program Learning Outcomes are designed to provide a given set of courses and other requirements so that students may acquire the knowledge, skills, habits of mind, and attitudes necessary to engage in a systems engineering related career on graduation.

Program Learning Outcome

1. Apply knowledge of mathematics, science, and engineering to identify, formulate, and solve systems engineering problems.
2. Understand the impact of engineering solutions in a global, economic, environmental and societal context.
3. Use modern engineering tools and techniques to successfully practice the engineering.
4. Use oral and written communication to convey technical concepts to engineers and non-engineers.
5. Collaborate as member or leader of a technical project team.

Career & Professional Development

Many masters students engage in summer internships. International students are eligible to engage in an internship after two semesters of full-time study.

Students may work with the [College of Engineering Career Development Office](#) to find internship opportunities. Handshake is the Career Development Office's online system for job and internship listings, which is exclusively for BU undergraduate students, graduate students, and alumni.

Please refer to the [SE Student Resources](#) page for further detail on College and University resources available to students and alumni at every stage of their career.

Independent Study and Mentored Project

Masters students may register for Independent Study or Mentored Project credits to fulfill the Practicum Requirement.

To register for MS 951 Independent Study or MS 952 Mentored Project:

Download, fill out, and get your advisor's signature on the [College of Engineering Directed Study/Independent Coursework Petition Form](#).

Send the form to the Division Graduate Programs Manager at se@bu.edu for division review. The Division Graduate Programs Manager will obtain Division approval, register you for the course, and forward the final form to you and your course supervisor.

International Students, Reduced Courseload

International students may request a reduced courseload if they meet the [ISSO guidelines](#).

International students pursuing a Masters Thesis will be certified-full time with a part-time load if they meet the requirements outlined below.

Reduced Courseload in Final Semester

International students are required to register for a minimum of 12 credits per semester, unless in their final semester. Students who wish to request a Reduced Courseload in their final semester, must:

- apply for graduation before the start of the final semester to ensure compliance with ISSO guidelines
- submit a reduced courseload request on the ISSO Portal

Thesis Track, Certified Full-Time with Part Time Load:

MS with Thesis students may be certified-full time with a part time load IF they are registered for a minimum of 8 credits, including at least 4 credits of thesis, per semester.

Internship Program Option: Engineering with Practice

Master's students may add the optional "[with Engineering Practice](#)" designation to their degree by completing an approved internship in their field of study. The program option recognizes the power of combining rigorous academic coursework with supervised real-world research or industrial applications. Participating students add value to their academic experience with a related internship that enables them to both develop and apply their technical, project management, and leadership skills.

Students should refer to the [Internship Guidance \(Engineering Practice and CPT\)](#) provided by the College of Engineering. This webpage provides guidance for Masters, PhD, and International students as well as required documents and the Engineering Practice Approval Form.

The College of Engineering Graduate Programs Office manages the Engineering with Practice and CPT process. Please direct questions to enggrad@bu.edu. The Division Director can provide additional support as needed.

Masters Degree Specializations

The College of Engineering offers a unique way for students to advance in rapidly growing economic sectors that have a critical need for trained engineers. Students can solve pressing societal challenges with an interdisciplinary Specialization in Robotics, Data Analytics, or Cybersecurity.

Refer to the [Masters Degree Specializations](#) website to learn about the options and requirements.

To declare a Specialization: follow the instructions at the bottom of the specialization webpage.

Refer questions to: enggrad@bu.edu.

1. Masters Thesis Option

Students are encouraged to discuss their research interests with faculty at the beginning of their masters program and enroll in their second semester.

MS candidates choosing the thesis option must enroll in ENGSE 954 Thesis for at least 4 credits; no more than 8 credits of thesis research can count towards the MS degree. Thesis work is likely to entail several semesters of research; as a result, completion of the masters with thesis degree usually requires more than one year.

A research problem is selected after initial discussions between the research advisor and the student. The development of a thesis topic is typically a cooperative effort between the student

SE Masters Handbook 2025-2026

and research advisor. Commonly, the advisor initially suggests a problem to be addressed, but the student is expected to contribute ideas and thought as to how to approach the problem.

MS Thesis candidates shall demonstrate their abilities for independent research and scholarship by completing a written thesis in their field of study. The thesis will be primarily guided by the first reader (advisor), with the advice of the other member(s) of the Thesis Committee. The thesis should represent original scientific/engineering contributions that are appropriate for publication in a recognized peer-reviewed journal. The thesis is defended at a presentation open to the entire BU community and submitted to the Mugar Library to satisfy the requirements of the MS with Thesis degree.

2. Masters Thesis, Proposal & Committee

Before a student may enroll in ENGSE 954 Thesis, a Thesis Committee must be formed.

The student must submit the following forms (see Forms section) to the Graduate Programs Manager at se@bu.edu:

- MS Thesis Proposal Form
- Directed Study/Independent Coursework Petition Form (each semester)

Thesis Committee

The Thesis Committee must have a minimum of two members, one of which must be an SE appointed faculty member. The student's research advisor will chair the thesis committee. The Thesis Committee is charged with assessing the appropriateness of the research problem and the student's preparation, based on the written proposal and the oral presentation. The Thesis Committee must approve that the Thesis is at a stage appropriate for scheduling the final presentation via their signature on the Final Thesis Presentation form and on the signature page of the thesis submitted to the Mugar Library.

Special Service Appointment

If a researcher from outside the University serves on a student's committee, a Special Service Appointment Form (see Forms section) must be completed and submitted to the Division Graduate Programs Manager for division approval. The completed form and a copy of the person's curriculum vitae, with the Associate Chair for Graduate Studies' signature, will then be submitted to the Graduate Programs Office.

Intellectual Property Policy (IPP) Agreement

Students who receive support from sponsored research programs or who make significant use of BU funds and facilities are required to sign the BU Intellectual Property Policy Agreement. Seek counsel with your faculty advisor about this policy pertaining to intellectual property. A

signed form is required for thesis students. Click here for [the Intellectual Property Policy Agreement](#) and form (Appendix A).

3. Masters Thesis, Finding an Advisor

Occasionally MS students enter the program with a specific research advisor in mind and may even plan to work on a specific project. The majority of students, however, will utilize the first two semesters to determine what their specific interests are in the field of materials science and engineering and identify the opportunities for funding in a professor's lab.

MS with Thesis students typically connect with their research advisors through (1) doing lab rotations and deciding upon a research area; (2) interacting with faculty through coursework and informal discussions. Students can check the list of current Faculty Research Interests and SE Laboratory and Research Center Descriptions, available on the SE website.

Another valuable way of learning more about specific research opportunities is to speak with other graduate students who are currently working in the various SE faculty labs. The best measure for learning about working in a specific lab is to make an appointment to speak with the faculty member in charge of a lab you are interested in.

Some useful questions to ask are:

- What projects are currently going on and what projects are planned for the near future?
- What background is required to work in the lab?
- How is the lab funded and is there the possibility of funds for a new graduate student?
- What expectations does the faculty member have of graduate students?
- If the potential advisor has been at BU for at least a few years, does he/she have a strong history of training students in a timely manner? Have his/her students generally been successful?

Once a student finds a research opportunity and has the consent of a faculty member to be his/her advisor, the process of developing a research project begins.

Research Rotations

Masters students considering a thesis may seek out laboratory rotations during the first year. This provides the students an opportunity to gain exposure to more than one research area and to help in identifying a good match with a thesis advisor.

Who Can Be a Thesis Advisor

Any full-time member of the SE faculty, or any affiliated or adjunct faculty member who has an appointment with the Division, is eligible to serve as a research advisor. The thesis advisor will

supervise the student's thesis project and advise. MS with Thesis students are expected to choose a thesis advisor no later than the end of the second semester of matriculation. The thesis advisor is also the student's academic advisor.

4. Masters Thesis, Final Presentation

The Final Thesis Presentation (see registration process, below) is a public presentation of the candidate's thesis. The presentation should clearly define the problem, describe the method(s) used to solve the problem, report results and establish significance of the results. The purpose of the Final Thesis Presentation is to ensure that the thesis constitutes a worthy contribution to knowledge in the candidate's field and that the candidate has attained an expertise in his/her field of research specialization.

Previous Masters theses are available for review in the Division. Please see the Division Graduate Programs Manager.

Formatting Guidelines

Please refer to [the Guide for Writers of Theses & Dissertations](#) while preparing the thesis and abstract. These must conform to the requirements of the University Microfilms International. The process includes submitting a draft to theses@bu.edu for comment on formatting; the thesis cannot be submitted via ETD until approved by the Library.

Although students will have an opportunity to make final revisions to the thesis and abstract after their Final Thesis Presentation, they should not regard their Final Presentation version as a "rough draft."

Register the Final Thesis Presentation

At least two weeks prior to the Thesis Presentation date, the candidate must [Register the Presentation Online](#).

Upon registration, the Graduate Programs Manager will circulate the abstract and final thesis presentation forms using Adobe Sign and will assist with scheduling a room, preparing the thesis announcement, and arranging catering.

Before registering the presentation, the candidate must have provided a copy of the thesis document to all members of the Final Thesis Presentation committee. It is the student's responsibility for scheduling a date, location and time with all the Thesis Committee members for the examination.

Conduct and Length of the Final Thesis Presentation

The thesis chair should introduce the candidate and include a brief academic background description. The candidate should restrict the length of the examination to approximately one hour. During this period, either the Thesis Committee members or audience may ask questions of clarification. The chair should guard against digression and inappropriate questioning during the presentation. After the presentation, a reasonable period of questioning will follow, and then the audience will be dismissed. The Thesis Committee may wish at this time to ask additional questions of the candidate. Following this additional questioning, the candidate should be excused and the committee should complete its assessment of the examination.

Assessment

The Thesis Committee is charged with assessing completeness of the research, contribution to knowledge, and the candidate's mastery of his/her research area, based on the written thesis and the oral presentation. Vote may be ballot or voice. A unanimous vote is required for a candidate to pass.

It is the chair's responsibility to call the candidate back after the Thesis Committee has reached a decision. The chair will advise the student of the committee's decision. At this time the candidate will be advised of any changes that must be made to the final title, abstract or thesis document, with a deadline provided by the Thesis Committee.

Reporting

The MS Final Thesis Presentation Form must be completed at the examination, with specific indication of whether the title, abstract and thesis are acceptable as they stand. If ALL requirements are acceptable, the committee members should sign the signature pages of the thesis. If there is some rework to be done, this is to be noted on the Final Thesis Presentation form. Thesis Defense Committee members should sign off on the form but will refrain from signing the signatures page of the thesis until all conditions have been met UNLESS faculty will be traveling at the time of library submission in which case all but one (usually the advisor) Committee member may sign the signature pages. The last signature will be added when all revisions are completed.

5. Masters Thesis, Approval and Library Submission

The signatures of the Thesis Defense Committee members on the thesis signatures page will indicate final approval of the title, abstract and thesis. Once signatures have been obtained, the student must submit two original, signed signature pages: one copy for the MSE Division and one personal copy for the primary advisor.

The Associate Chair for Graduate Studies gives final approval on the Final Oral Examination form.

The student will then follow [the electronic submission guidelines provided by Mugar Library](#).

The Division Graduate Programs Manager will provide departmental electronic approval for the student upon receiving the original signatures pages and title page.

The Division Graduate Programs Manager will handle the binding of thesis copies for the primary thesis advisor and the Division.

Apply to Graduate

The College of Engineering Application to Graduate can be completed in one to three steps, depending on whether you are applying to graduate with your Masters (upon completion of the PhD Prospectus Defense) or PhD degree.

For additional details on requirements and submission dates, you can refer to the Deadlines for applying to graduate.

International students, who wish to request a Reduced Courseload in their final semester, should apply for graduation before the start of the final semester to ensure compliance with ISSO guidelines.

Masters Application to Graduate

- Download and fill out your Program Planning Sheet (Forms section, below).
- Email your Program Planning Sheet to your advisor for review and electronic signature.
- Fill out the Online Application to Graduate and upload your signed Program Planning Sheet.

See also, [Office of the University Registrar, Diploma & Graduation FAQs](#)

Forms

Division Forms

- [Masters Activity Report Form](#)
- [MS Thesis Proposal Form](#)
- [MS Thesis Final Presentation Registration](#) Form
- [Program Planning Sheet, MEng, 2025-26](#)
- [Program Planning Sheet, MS Non-Thesis, 2025-26](#)
- [Program Planning Sheet, MS Thesis, 2025-26](#)

College of Engineering Forms

- [LEAP Program Planning Sheets](#)

- Childbirth and Adoption Accommodation Form
- Graduate Petition Form
- Directed Study/Independent Coursework Petition Form
- With Engineering Practice Form
- Specializations
- Special Service Appointment Form
- Transfer Credit
- Graduate Application
- Program Change Form
- Withdrawal and Leave of Absence Forms
- Add/Drop Form
- Registration Form
- PhD Readers' Approval Form (Dissertation Signature Page)
- Cross Registration Enrollment (Questrom)

Student Resources

Academic Resources

Frequently asked questions regarding concerns like transferring credits, graduation requirements, auditing coursework, are often answered on the Academic Policies page:

<https://www.bu.edu/academics/policies/>

The academic calendar with semester start and end dates, holidays, and more is here:

<https://www.bu.edu/reg/calendars/>

Financial Support

Student Financial Services helps students manage their finances by providing information on financial aid, scholarships, and grants. It assists with budgeting and financial planning throughout their studies. More information can be found here: <https://www.bu.edu/finaid/>

Each college has its own Graduate Financial Aid Office. Learn more about the College of Engineering's office and how to contact them here:

<https://www.bu.edu/eng/admissions/graduate/financing-your-education/>

Student Health and Wellness

Student health resources can be found here: <https://www.bu.edu/shs/> Additional mental health and wellbeing resources are here: <https://www.bu.edu/phd/resources/health-wellness/>

BU provides unparalleled and inclusive educational and recreational programs, services, and facilities to promote physical, social, and emotional health and wellness. The Department of

Physical Education, Recreation and Dance (PERD) is an educational and service department committed to providing quality physical education classes to the Boston University community.

More information can be found here: <https://www.bu.edu/fitrec/>

Leave of absence and withdrawal support can be found here:

<https://www.bu.edu/academics/grs/policies/withdrawal-leave-of-absence-andreinstatement/>

International Student Support

International students seeking support should visit BU Support Pathways page:

<https://www.bu.edu/support-pathways/>

IT Support Services

BU's IT Support Center provides technical support and resources for students, including assistance with BU's online systems, software, and hardware issues. It ensures students can effectively use technology in their studies. Contact them here: <https://www.bu.edu/tech/>

Boston University Resource Centers

The Newbury Center supports first generation students with resources and mentorship:

<https://www.bu.edu/newbury-center/>

LGBTQIA+ Center provides resources and support for LGBTQIA students:

<http://www.bu.edu/lgbtqia-student-center/>

The Howard Thurman Center promotes cultural understanding and community engagement:

<http://www.bu.edu/thurman/>

Student Support Services

The Sexual Assault Response and Prevention Center (SARP) offers support for survivors of sexual assault: <https://www.bu.edu/shs/survivor-support/>

Disability and Access Services provides accommodations and support for students with disabilities: <https://www.bu.edu/disability/>

University Support Services

The Office of the Ombuds is a confidential resource for resolving university-related issues:

<https://www.bu.edu/ombuds/>

BU Bus is an inter-campus shuttle system: <https://www.bu.edu/transportaon/bus/>

BU Parking Services provides information on parking permits and regulations:

<https://www.bu.edu/transportation/parking/>

Policies & Procedures for Handling Sexual Misconduct

Policies and procedures for addressing sexual misconduct can be found here:

<https://www.bu.edu/policies/files/2021/10/Sexual-Misconduct-Gender-Based-MisconductResource-Guide.pdf>

Community & Networking

BU encourages students to foster community and personal growth. Find resources to balance academic and personal life: <https://www.bu.edu/grad/>

Graduate student groups and associations are excellent ways to network and hear about upcoming activities and opportunities.