



MIT Civil and Environmental Engineering  
Master of Engineering, *Structural Mechanics and Design*

## **1.THG / Thesis Guidelines**

The MEng thesis is the result of an individual research project conducted by each student in the program in close collaboration with their faculty thesis supervisor. Thesis research begins immediately upon arrival at MIT, and concludes in May with the submission of the signed thesis document. The official MIT deadline for thesis submission is **May 8, 2020**.

The general process and timeline for conducting and writing the MEng thesis is as follows:

### **September-October 2019**

Thesis topic exploration, preliminary literature review, meetings with potential supervisors, supervisor and topic selection.

### **November-December 2019**

Thesis literature review completed, research question and methodology established, preliminary research results gathered, thesis outline started.

### **January-February 2020**

Research methodology(ies) carried out, including numerical and computational work, physical experiments, etc. Students are expected to be present on campus during IAP conducting research.

### **March 2020**

Final research results and analysis/interpretation completed, writing on all chapters initiated.

### **April-May 2020**

Thesis writing, revising, editing, and submission.

Students will work closely with their thesis supervisors and CEE faculty throughout all steps of the thesis process. As part of the 24 1.THG units completed in the program, students will have multiple activities, milestones, deadlines, and presentations to ensure steady progress and to share thesis research and results with their peers.

Outside of meetings with supervisors, most thesis activities related to 1.THG will take place on Fridays, 12-2pm in room 3-333 (on days when there is no Structural Mechanics and Design Engineering Seminar). A detailed schedule for the 2019-2020 academic year is given below.

### **Key 1.THG Dates and Assignments, Fall 2019**

13 September 2019, 12pm-2pm, room 1-141

**Thesis introduction by CEE faculty and MIT Libraries for MEng Students**

27 September 2019, 12pm-2pm, room 1-141

**Short research presentations by CEE faculty for MEng Students**

4 October 2019

**Preliminary literature review due on Learning Modules website**

*Select and annotate three scholarly publications representative of your interests and possible focus of the MEng thesis. A written paragraph devoted to each publication should summarize the completed research and propose future work that could be done toward the thesis. This document should be used in conversations with potential thesis supervisors.*

18 October 2019

**Thesis proposal signed by supervisor due to 1-290, CEE Headquarters**

*Prepare a one-page abstract proposing research for the MEng thesis. The abstract should introduce the topic, outline research methodology, and summarize the goals of the work. The thesis supervisor must also sign the cover sheet to indicate their agreement in supervising the proposed topic.*

8 November 2019, 12pm-2pm, room 3-333

**Thesis progress presentations by each student**

*Prepare a 6-minute presentation using Powerpoint or similar software to introduce your research topic, review critical existing research in the same area, identify the original research question, outline the proposed methodology, anticipate results, and conclude with the impact of the work. Feedback on both the content and clarity of the presentation will be provided by CEE faculty.*

13 December 2019

**Thesis outline due to supervisor**

*Full thesis draft in outline form, including the five standard chapters: 1. Introduction, 2. Literature Review, 3. Methodology, 4. Results, 5. Conclusions. The first three chapters should be more filled out, including text and images, while the later chapters can include placeholders for anticipated content.*

## **Key 1.THG Dates and Assignments, Spring 2020**

7 February 2020, 12pm-2pm, room 3-333

### **Thesis progress presentations by each student**

*Prepare a 5-minute presentation using Powerpoint or similar software to give updates on your thesis research, following a similar format to the November presentation (with more focus on methodology and results). Feedback on both the content and clarity of the presentation will be provided by CEE faculty.*

20 March 2020

### **Progress thesis draft due to supervisor**

*Expansion on thesis draft outline from December, including substantial updates to Literature Review, Methodology, and Results. Your supervisor will give comments and feedback in person and/or in writing on your draft.*

17 April 2020

### **Full thesis draft due to supervisor**

*Near-final thesis draft will all chapters written, and results completed, analyzed, and interpreted. This deadline is critical to receive final feedback from your supervisor.*

1 May 2020

### **Final thesis draft due to supervisor**

*Finalized thesis that has been copy-edited, formatted according to MIT Guidelines (<https://libraries.mit.edu/archives/thesis-specs/>), and thoroughly reviewed by the student for legibility, clarity of arguments, and overall quality. This is the final version to be approved by the supervisor prior to printing and submission.*

8 May 2020

### **Thesis submission deadline**

*Two copies of the thesis printed on archival paper and signed by the thesis supervisor are due to 1-290 by 12pm.*

13 May 2020

### **Final thesis presentations by each student**

*Highlights from thesis research are shared by each student in a program symposium celebrating the year's work, followed by a reception.*