Welcome to the Brown School of Engineering!

We are glad that you have chosen to conduct your graduate studies at the Brown School of Engineering. Brown University has a proud history in American engineering education. Engineering at Brown is the third oldest civilian program in the country and the first program founded in the Ivy League. The school today is distinguished by outstanding students and faculty, an integrated school structure free from traditional departmental boundaries, a distinctive interdisciplinary curriculum, liberal arts electives, and a strong research environment.

The School of Engineering reflects the rigor, collaborative spirit, and creativity of its faculty and the idealism and entrepreneurial ethos of its students. Teaching and research in the School of Engineering reflects the unique position Brown holds in higher education – an institution that provides the close mentoring relationships characteristic of a liberal arts college, the intellectual excitement of a research-intensive university, and an open curriculum that allows students to be the architects of their own education. Your acceptance into our highly selective programs indicates that we believe you have the capability and desire to contribute in your own way to the future.

Note: this handbook format is intended to be viewed digitally as it contains a large number of links to related university resources. The current digital version can be viewed at: https://www.brown.edu/academics/engineering/graduate-study/graduate-programs-guide
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I. STATEMENT OF PURPOSE

This handbook is provided to Master’s students of Brown University’s School of Engineering. It is intended to help students navigate the process of obtaining their respective degree. It does not replace the school’s graduate advising, but instead is intended as a reference to provide supplemental information.

II. INTRODUCTION

This handbook is intended to aid new students in their transition into graduate school as well as assist all students toward the successful completion of their degree and associated requirements. It is each graduate student’s personal responsibility to read and understand the information pertaining to graduate studies both in this Handbook and in the course bulletin.

III. MISSION STATEMENTS

The Missions of Brown University and the School of Engineering
IV. GRADUATE REPRESENTATIVES AND CONTACTS

<table>
<thead>
<tr>
<th>Program</th>
<th>Graduate Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Engineering (BME)</td>
<td>Kareen Coulombe</td>
</tr>
<tr>
<td>Chemical and Environmental Engineering (ChEE)</td>
<td>Franklin Goldsmith</td>
</tr>
<tr>
<td>Electrical and Computer Engineering (ECE)</td>
<td>Harvey Silverman</td>
</tr>
<tr>
<td>Fluids and Thermal Sciences (FTS) – Fall 19</td>
<td>Tom Powers</td>
</tr>
<tr>
<td>Fluids and Thermal Sciences (FTS) – Spring 20</td>
<td>Roberto Zenit</td>
</tr>
<tr>
<td>Materials Science (Materials) – Fall 2019</td>
<td>Axel van de Walle</td>
</tr>
<tr>
<td>Materials Science (Materials) – Spring 2020</td>
<td>Sharvan Kumar</td>
</tr>
<tr>
<td>Mechanics of Solids (Solids)</td>
<td>David Henann</td>
</tr>
<tr>
<td>Director of Graduate Studies (DGS)</td>
<td>Eric Chason</td>
</tr>
<tr>
<td>Program in Innovation Management and Entrepreneurship (PRIME)</td>
<td>Patrick McHugh</td>
</tr>
</tbody>
</table>

V. OFFICE OF ACADEMIC AND STUDENT AFFAIRS

If students have issues, questions, or concerns about student advising, they should contact a member of the Office of Academic Programs and Student Affairs. For PRIME, contact Director Patrick McHugh (see email above).

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolyn Harris</td>
<td>Manager, Academic Programs and Student Affairs</td>
<td><a href="mailto:Carolyn_Harris@brown.edu">Carolyn_Harris@brown.edu</a></td>
<td>B&amp;H 307</td>
<td>863-6859</td>
</tr>
<tr>
<td>Kathleen DiOrio</td>
<td>Graduate Program Coordinator</td>
<td><a href="mailto:Kathleen_Diorio@brown.edu">Kathleen_Diorio@brown.edu</a></td>
<td>B&amp;H 312</td>
<td>863-1296</td>
</tr>
<tr>
<td>Victoria Riccitelli</td>
<td>Academic Program Coordinator, Undergraduate</td>
<td><a href="mailto:Victoria_Riccitelli@brown.edu">Victoria_Riccitelli@brown.edu</a></td>
<td>B&amp;H 312</td>
<td>863-1471</td>
</tr>
<tr>
<td>Jennifer Casasanto</td>
<td>Associate Dean for Programs and Planning</td>
<td><a href="mailto:Jennifer_Casasanto@brown.edu">Jennifer_Casasanto@brown.edu</a></td>
<td>B&amp;H 318</td>
<td>863-1433</td>
</tr>
</tbody>
</table>
VI. UNIVERSITY POLICY INFORMATION

The following links provide information for important university-wide policies on:

- Affirmative Action
- Discrimination and Workplace Harassment
- Gender Inequity and Sexual Assault
- Title IX and Gender Equity
- Relationship and Interpersonal Violence

The University Bulletin also includes a General Regulations section containing information on academic requirements, course registration, grading, exams, and Student Conduct and Community Standards.

VII. ETHICS AND PROFESSIONALISM

Both Brown and the School of Engineering have strict policies regarding ethics and professionalism. Unethical behavior or any type of academic dishonesty will not be tolerated. As a graduate student, you are responsible for knowing and abiding by the Student Conduct and Community Standards.

All students are expected to have read in full and be familiar with The Academic Code and Code of Student Conduct. In addition, all students conducting research must complete the University’s program on ethics and responsible research conduct, BEARCORE, which details responsible conduct of research.

All students are expected to have read and be familiar with the full Academic Code and Code of Student Conduct. In addition, all students conducting research must complete the University’s program on ethics and responsible research conduct, BEARCORE, which focuses on responsible conduct of research.

VIII. NEW STUDENT INFORMATION

A. Prospective Students

The University prepares graduate students for distinguished careers in research, teaching and as experts in the public and private sectors. Master’s students are trained to assess information and trends in their fields and to create original works. Brown students are distinguished by academic excellence, self-direction, and a collaborative style of learning. Faculty members pursue their own research and scholarship while remaining deeply committed to teaching both graduate and undergraduate students.
We encourage you to explore the opportunities at Brown University’s School of Engineering, which offers seven areas of study for Master’s programs. If you are interested in a program, please feel free to contact that program advisor. Pay close attention to application deadlines which vary by program.

For additional application information, please visit the Graduate School application page.

B. New Graduate Student Orientation

At the beginning of each academic year, both the university and the School of Engineering hold two new graduate student orientation meetings. New students are required to attend both of these meetings. We will host a School of Engineering graduate student orientation on Friday, August 30, 2019 in the Engineering Research Center, 345 Brook Street. This is an ideal opportunity to meet the School of Engineering dean, associate deans, graduate advisors, faculty, staff, and your fellow Master’s students.

In addition to the School of Engineering orientation, you will receive an invitation to attend the Graduate School Orientation scheduled for Tuesday, August 27, 2019.

The Graduate School, in conjunction with the Office of International Student and Scholar Services (OISSS), will hold an International Student Orientation on Thursday and Friday, August 22 and 23, 2019 to kick off the start of the academic year. You are required to attend these events where you will receive helpful information on how to navigate Brown, receive responses to your administrative and/or technical concerns, and learn about key resources available to you at Brown.

C. Graduate Representative

Your Graduate Representative will assist you in setting up your first semester course schedule, help you become oriented to the program for which you are enrolled, and will aid you in your transition to graduate school. If you choose to pursue the Thesis Track, you are required to identify an advisor from your program of study by the end of the first term. Your Graduate Representative will guide you in this process.

D. Email and Internet Access

Accessing Accounts: Note that your Brown username (what you use to log into Banner and Canvas) and your Google login information are separate. For more information, see About Your Brown Usernames.

Most on-campus and departmental communications are done by email and, by default, your brown.edu email is used. To activate your electronic services, you will need your Brown identification number. You received this number once you committed to attending the university. Follow the steps below to activate electronic services:

1. Locate your Brown ID number at https://myaccount.brown.edu/
2. Click on “Activate Here” under Activate Your Brown Account
3. Enter the requested data on this secure site and click on “Continue”

Contact Computing & Information Services (CIS) if you require assistance with this process.

Wireless Internet Access: Connect your devices by visiting https://ithelp.brown.edu/kb/52-brown-wireless. If you have a browserless device like a gaming system or Roku, see brown.edu/go/browserless

E. Acceptable Use and More Information for Computing on Campus

The computing resources at Brown University support the educational, instructional, research, and administrative activities of the university and as a user, it is important to engage in these resources in a responsible, ethical, and legal manner. In general, acceptable use means respecting the rights of other computer users and maintaining the integrity of the physical facilities and all pertinent license and contractual agreements. If an individual is found to be in violation of the Acceptable Use Policy, the university will take disciplinary action, including the restriction and possible loss of network privileges. Please visit the full acceptable use policy on the CIS website.

Visit Computing & Information Services website to learn more about computing life at Brown. Once you arrive on campus, you can stop by the CIS information table at the University Resource Fair. If you have questions prior to your arrival on campus, please visit the website above or contact a Help Desk Specialist at help@brown.edu or call 401-863-HELP (4357).

F. Graduate Student Space

Graduate students are encouraged to use the dedicated lounge at 42 Charlesfield Street. The entrance to the Graduate Student Council’s Graduate Lounge is accessed from Thayer Street, south of the Graduate Center dormitory and beneath the winding staircase. For academic space, there is a graduate computer lab in Giancarlo Lab 092 (basement level of Barus and Holley). This space has unassigned seating and you can log on to these computers as you would any computer on the Brown domain. These computers provide a suite of engineering software as well as the internet and other office tools. To meet up with peers, you may utilize the community space in the Barus & Holley main lobby or Hazeltine Commons of the Engineering Research Center.

In addition to the working space assigned to you in your group, students are encouraged to use the dedicated Grad Lounge located at 42 Charlesfield Street. The entrance to the Graduate Lounge is accessed from Thayer Street, south of the Graduate Center dormitory, beneath the winding staircase.
Horace Mann 4th Floor, located at 47 George Street, is open and reservable for graduate students and graduate student organizations who are welcome to use the space for meetings or study. Enter Horace Mann through the main door and take the elevator or stairs to the 4th floor. The space occupies the east side of the top floor. Hours of availability: Monday through Friday, 8:30 am to 5 pm. To request use of the space, email Esther Reynoso in the Graduate School.

IX. SAFETY TRAINING

Any engineering graduate student who plans to work in an engineering laboratory must attend an Office of Risk Management Safety Training Seminar. The Engineering Safety Officer informs all graduate students of the dates and times that these three-hour seminars are held. Failure to attend one of these seminars can revoke a student’s TA or an RA appointment.

Depending upon the nature of the research that a student becomes involved with, other safety trainings may be necessary prior to our granting student access to a lab (i.e., hazardous waste, laser safety, biosafety, radiation safety, etc.). A basic Laboratory Safety Training course as well as more specialized trainings are required, depending on the nature of your work and type of lab. Laboratory safety courses are available through Brown’s Office of Environmental Health & Safety. Please visit the EH&S website to view courses available and descriptions of who is required to attend.
X. STUDENT STATUS AND TUITION

A. Timelines for Master of Science Students

The Master of Science program duration default is enrollment for four (4) semesters.

- The course timeline for Thesis Track is 4 semesters/2 years:
  \[ (3 \text{ courses } + 2 \text{ courses (plus research)} + 2 \text{ courses (plus research)} + 1 \text{ reading/research course -- finalize thesis}) \]
- The course timeline for Non-Thesis Track is 3 semesters/1.5 years:
  \[ (3 \text{ courses } + 3 \text{ courses } + 2 \text{ courses}) \]

Master’s students are admitted into the four-semester trajectory and all have the option of requesting the Thesis Track or reverting to the Non-Thesis Track (the three-semester trajectory.) While many take this option, it is not expected, and the majority of engineering Master’s students do not remain in the Thesis Track or choose to complete a thesis.

Students must decide on Thesis Track/Non-Thesis Track by the end of their first semester. An option for completing the eight (8) course requirements earlier is possible for outstanding students, and only with permission of their advisor. This change to your EDOC (Expected Date of Completion) must be reported in the fall of your first semester (see Page 5 of this Handbook for a list of Graduate Representatives who can assist you).

For students starting in Fall 2019 on the Non-Thesis Track, your EDOC is December 2020. For those completing the Thesis Track, your EDOC is May 2021. If you vary from the expected number of courses per semester, this could affect your completion date and tuition costs. In addition, there may be visa implications for international students who deviate from the program structure. International students must be enrolled full-time. There are rare exceptions to this, such as in the case of medical necessity.

B. Tuition

Deadline for paying fall tuition
The deadline for paying your fall semester tuition bill is August 1; the payment deadline for spring semester is January 1. Billing and Payment Information can be found on the Graduate School website.

All students will be billed for the minimum of two courses. Once you have registered for a third course you will receive an updated bill for that third course. Account balances not paid by the deadline are assessed a 1.5% late fee. Students with Past Due balances will have a hold placed by the Bursar on their student records. Please note: The Bursar hold prevents students from receiving academic transcripts, receiving their diploma, bookstore charging privileges, and participating in pre-registration for upcoming terms.

Once the student account is paid and cleared, holds are released and privileges restored.
Current tuition deadlines and policies may be found on Brown's Graduate School site and also in the Policies section of the Bursar's website.

XI. FINANCIAL ASSISTANCE

The majority of students enrolled in Master’s programs and engaged in non-degree study are self-supported or funded by employers. Students may also be eligible for federal student loans and other loans administered through the Office of Financial Aid.

Current Master's students are also eligible for conference travel funds through the Graduate School. Graduate students who present at academic conferences can apply for up to $650 to cover travel-related expenses. Plan to apply early as funds are limited.

XII. MASTER OF SCIENCE REQUIREMENTS

A. Sample Programs of Study

The following is a sample guide to courses recommended for Engineering Master’s degree candidates. Each student should discuss courses with a Graduate Representative. Ultimately, the student is responsible for proposing a coherent set of courses that satisfy the School of Engineering’s ScM Requirements. For course descriptions, please visit Courses@Brown.

1. Sample ScM Course Plan for Biomedical Engineering (BME)

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>BIOL 2050 Biology of the Eukaryotic Cell</td>
</tr>
<tr>
<td></td>
<td>ENGN 1490 Biomaterials</td>
</tr>
<tr>
<td>Semester II</td>
<td>BIOL 2310 Developmental Biology</td>
</tr>
<tr>
<td></td>
<td>ENGN 1210 Biomechanics</td>
</tr>
<tr>
<td>Semester III</td>
<td>BIOL 1070 Biotechnology and Global Health</td>
</tr>
<tr>
<td></td>
<td>ENGN 2910S Cancer Nanotechnology</td>
</tr>
<tr>
<td>Semester IV</td>
<td>ENGN 2912R Implantable Devices</td>
</tr>
<tr>
<td></td>
<td>ENGN 2980 Special Projects: Reading Research and Design</td>
</tr>
</tbody>
</table>
### Non-Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
</table>
| Semester I | ENGN 2010 Mathematical Methods in Engineering and Physics I (or PHYS 2020 Mathematical Methods of Engineers and Physicists)  
CHEM 2010 Advanced Thermodynamics  
ENGN 2810 Fluid Mechanics I or ENGN 1120 Reaction Kinetics and Reactor Design |
| Semester II | ENGN 2020 Mathematical Methods in Engineering and Physics II  
ENGN 2750 Chemical Kinetics and Reactor Engineering  
ENGN 2760 Heat and Mass Transfer |
| Semester III | *ENGN 2000 level elective  
*ENGN 1000 or 2000 level elective |

### Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
</table>
| Semester I | ENGN 2010 Mathematical Methods in Engineering and Physics I (or PHYS 2020 Mathematical Methods of Engineers and Physicists)  
CHEM 2010 Advanced Thermodynamics  
ENGN 2810 Fluid Mechanics I or ENGN 1120 Reaction Kinetics and Reactor Design |
| Semester II | ENGN 2020 Mathematical Methods in Engineering and Physics II  
ENGN 2750 Chemical Kinetics and Reactor Engineering OR  
ENGN 2760 Heat and Mass Transfer  
(2 courses total, plus research) |
| Semester III | ENGN 2810 Fluid Mechanics I or ENGN 1120 Reaction Kinetics and Reactor Design OR  
ENGN 1000 or 2000 level elective OR  
ENGN 2980 Special Projects: Reading Research and Design  
(2 courses total, plus research) |
| Semester IV | ENGN 2980 Special Projects: Reading Research and Design  
(finalize thesis) |
3. Sample ScM Course Plan for Electrical and Computer Engineering (ECE) Non-Thesis Track

Sample Course Plan for ECE Students with Multimedia/Signal Processing Interest

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2530 Digital Signal Processing</td>
</tr>
<tr>
<td></td>
<td>ENGN 1610 Image Understanding</td>
</tr>
<tr>
<td></td>
<td>APMA 1690 Computational Probability and Statistics</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td></td>
<td>ENGN 2520 Pattern Recognition and Machine Learning</td>
</tr>
<tr>
<td></td>
<td>*ENGN 2560 Computer Vision</td>
</tr>
<tr>
<td>Semester III</td>
<td>Two approved ENGN 1000 or 2000 level courses</td>
</tr>
</tbody>
</table>

4. Sample ScM Course Plan for ECE Students with Computer Engineering Interest

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2911X Reconfigurable Computing for Machine/Deep Learning</td>
</tr>
<tr>
<td></td>
<td>ENGN 1600 Design and Implementation of VLSI Systems</td>
</tr>
<tr>
<td></td>
<td>APMA 1650 Statistical Inference I</td>
</tr>
<tr>
<td></td>
<td>*A first semester ScM student must take at least one 2000-level program requirement course in the first semester.</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2520 Pattern Recognition and Machine Learning</td>
</tr>
<tr>
<td></td>
<td>ENGN 1640 Design of Computing Systems</td>
</tr>
<tr>
<td></td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td>Semester III</td>
<td>One approved 2000 level ECE course</td>
</tr>
<tr>
<td></td>
<td>One approved ENGN 1000 or 2000 level courses</td>
</tr>
</tbody>
</table>
Sample ScM Non-Thesis Program Course Plan for ECE Students with Electrophysics/Circuits Interest

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2620 Solid State Quantum and Optoelectronics</td>
</tr>
<tr>
<td></td>
<td>ENGN 1590 Intro to Semiconductors and Semiconductor Electronics</td>
</tr>
<tr>
<td></td>
<td>*An approved math course</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 1931A Photovoltaics Engineering</td>
</tr>
<tr>
<td></td>
<td>ENGN 2610 Physics of Solid State Quantum Devices</td>
</tr>
<tr>
<td></td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td>Semester III</td>
<td>ENGN 2980 Special Projects: Reading Research and Design</td>
</tr>
<tr>
<td></td>
<td>ENGN 2912E Low Power VLSI System Design</td>
</tr>
</tbody>
</table>

Sample ScM Non-Thesis Program Course Plan for ECE Students with Computer Vision Interest

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 1610 Image Understanding</td>
</tr>
<tr>
<td></td>
<td>ENGN 2912B Scientific Programming in C++</td>
</tr>
<tr>
<td></td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2560 Computer Vision</td>
</tr>
<tr>
<td></td>
<td>ENGN 2520 Pattern Recognition and Machine Learning</td>
</tr>
<tr>
<td></td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td>Semester III</td>
<td>Two approved ENGN 1000 or 2000 level courses</td>
</tr>
</tbody>
</table>
1. Sample ScM Non-Thesis Program Course Plan for ECE Students with Medical Imaging Interest

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2500 Medical Image Analysis</td>
</tr>
<tr>
<td></td>
<td>ENGN 1610 Image Understanding</td>
</tr>
<tr>
<td></td>
<td>ENGN 1650 Embedded Microprocessor Design</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2500 Medical Image Analysis</td>
</tr>
<tr>
<td></td>
<td>ENGN 2980 Special Projects: Reading Research and Design</td>
</tr>
<tr>
<td></td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td>Semester III</td>
<td>ENGN 2912B Scientific Programming in C++</td>
</tr>
<tr>
<td></td>
<td>One approved ENGN 1000 or 2000 level course</td>
</tr>
</tbody>
</table>

Note: A first semester ScM student must take at least one 2000-level program requirement course in the first semester.

5. Sample ScM Course Plan for Fluids and Thermal Sciences (FTS)

<table>
<thead>
<tr>
<th>Non-Thesis Track</th>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester I</td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGN 2210 Continuum Mechanics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGN 2810 Fluid Mechanics I</td>
</tr>
<tr>
<td></td>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGN 2820 Fluid Mechanics II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>APMA 2580B Computational Fluid Dynamics</td>
</tr>
<tr>
<td></td>
<td>Semester III</td>
<td>*ENGN 1000 or 2000 level electives (two courses)</td>
</tr>
</tbody>
</table>
### Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
</table>
| Semester I | ENGN 2010 Mathematical Methods in Engineering and Physics I  
ENGN 2210 Continuum Mechanics  
ENGN 2810 Fluid Mechanics I  
(3 courses total) |
| Semester II | ENGN 2020 Mathematical Methods in Engineering and Physics II  
ENGN 2820 Fluid Mechanics II OR  
APMA 2580B Computational Fluid Dynamics  
(2 courses total, plus research) |
| Semester III | *An ENGN 1000 or 2000 level elective  
ENGN 2980 Special Projects: Reading Research and Design  
(2 courses total, plus research) |
| Semester VI | ENGN 2980 Special Projects: Reading Research and Design  
(finalize thesis) |

### 6. Sample ScM Course Plan for Materials Sciences

### Non-Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
</table>
| Semester I | ENGN 2010 Mathematical Methods in Engineering and Physics I  
ENGN 2410 Thermodynamics of Materials or  
ENGN 1410 Physical Chemistry of Solids  
ENGN 2430 Deformation Behavior of Materials or  
ENGN 1440 Mechanical Properties of Materials |
| Semester II | ENGN 2020 Mathematical Methods in Engineering and Physics II  
ENGN 2420 Kinetic Processes and Mechanisms in Materials Science or 1420 Kinetics Processes in Materials Science and Engineering  
ENGN 2400 Electron Microscopy in Materials Science or  
ENGN 2930 Atomistic Modeling of Materials |
| Semester III | ENGN 2490A Crystal Structures and Crystallography  
*An elective (e.g., ENGN 2210 Continuum Mechanics or ENGN 2240 Linear Elasticity) |
### Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I&lt;br&gt;ENGN 2410 Thermodynamics of Materials (or ENGN 1410 Physical Chemistry of Solids)&lt;br&gt;*An elective (e.g., ENGN 2430 Deformation Behavior of Materials or ENGN 2490A Crystal Structures and Crystallography)&lt;br&gt;(3 courses total)</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II&lt;br&gt;ENGN 2420 Kinetic Processes and Mechanisms in Materials Science&lt;br&gt;(or 1420 Kinetics Processes in Materials Science and Engineering)&lt;br&gt;(2 courses total, plus research)</td>
</tr>
<tr>
<td>Semester III</td>
<td>*An elective (e.g., ENGN 2430 Deformation Behavior of Materials or ENGN 2490A Crystal Structures and Crystallography or ENGN 2210 Continuum Mechanics or ENGN 2240 Linear Elasticity)&lt;br&gt;ENGN 2980 Special Projects: Reading Research and Design&lt;br&gt;(2 courses total, plus research)</td>
</tr>
<tr>
<td>Semester IV</td>
<td>ENGN 2980 Special Projects: Reading Research and Design&lt;br&gt;(finalize thesis)</td>
</tr>
</tbody>
</table>

(classes in parentheses are the closest substitute if the preferred class is not offered that semester.)

### 7. Sample ScM Course Plans for Mechanics of Solids

### Non-Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I&lt;br&gt;ENGN 1750 Advanced Mechanics of Solids&lt;br&gt;*An elective</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II&lt;br&gt;ENGN 2220 Mechanics of Solids&lt;br&gt;*An elective</td>
</tr>
<tr>
<td>Semester III</td>
<td>ENGN 2210 Continuum Mechanics&lt;br&gt;*An elective</td>
</tr>
</tbody>
</table>
A more challenging track for Mechanics of Solids

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I</td>
</tr>
<tr>
<td></td>
<td>ENGN 2210 Continuum Mechanics</td>
</tr>
<tr>
<td></td>
<td>*An elective</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II</td>
</tr>
<tr>
<td></td>
<td>ENGN 2220 Mechanics of Solids</td>
</tr>
<tr>
<td></td>
<td>*An elective</td>
</tr>
<tr>
<td>Semester III</td>
<td>ENGN 2340 Computational Methods in Structural Mechanics</td>
</tr>
<tr>
<td></td>
<td>*An elective</td>
</tr>
</tbody>
</table>
### Thesis Track

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td>ENGN 2010 Mathematical Methods in Engineering and Physics I&lt;br&gt;ENGN 2210 Continuum Mechanics&lt;br&gt;*An elective</td>
</tr>
<tr>
<td>Semester II</td>
<td>ENGN 2020 Mathematical Methods in Engineering and Physics II&lt;br&gt;ENGN 2220 Mechanics of Solids&lt;br&gt;(2 courses total, plus research)</td>
</tr>
<tr>
<td>Semester III</td>
<td>ENGN 2340 Computational Methods in Structural Mechanics&lt;br&gt;ENGN 2980 Special Projects: Reading Research and Design&lt;br&gt;(2 courses total, plus research)</td>
</tr>
<tr>
<td>Semester IV</td>
<td>ENGN 2980 Special Projects: Reading Research and Design&lt;br&gt;(finalize thesis)</td>
</tr>
</tbody>
</table>

*Subject to approval by Graduate Representative or Thesis Advisor.*

**Notes:**

- Not all courses are offered in each year — consult [Courses @ Brown](#) for details.

- Each student should discuss his or her course selections with their Graduate Representative. Ultimately, it is the student’s responsibility to propose a coherent set of courses that satisfies the ScM requirements.

- Other courses are acceptable with prior approval of the Graduate Representative.


Brown’s School of Engineering offers several options for the Master of Science (ScM) degree, whether your goal is further academic pursuits or improving your employment potential. Options below may be chosen and programs tailored toward your individual needs.

Thesis research is encouraged but not required and must be arranged by the student with an individual faculty. Please note that there is no established financial support for Master’s candidates and students must fund the additional thesis semester themselves.

For students in the Master of Science in Engineering program (Thesis Track), the approved course sequence is 3-2-2-1, meaning that the student takes three courses the first semester; two plus research the second; two plus research the third; and one (and finalize thesis) the fourth. Any deviation from this schedule may result in additional tuition and visa implications.
C. Master of Science (Thesis Track)
Candidates must complete a coherent plan of study based in engineering or engineering science consisting of eight graduate or advanced level courses and an acceptable thesis, which is normally sponsored by a member of the engineering faculty.

The program must include ENGN 2010/2020* (Mathematical Methods in Engineering and Physics) or their equivalent (must be 2000-level) and two additional 2000-level engineering courses other than ENGN 2980 (Special Projects: Reading, Research and Design). For a Thesis Track student, ENGN 2980 may be counted up to three times towards satisfying the degree requirements. It is typical that students sign up for two semesters of ENGN 2980 as part of their thesis preparations.

Courses in our Program in Innovation Management and Entrepreneurship (PRIME) are not acceptable for use as one of the 2000-level engineering classes. The remainder of the eight classes may include up to two 1000-level engineering classes, other approved science classes, or PRIME classes. Students should choose courses in consultation with their advisor to develop a coherent program. *Either ENGN 2010 or ENGN 2020 can be replaced by an alternate mathematics course with approval of the appropriate Graduate Representative and the Director of Graduate Studies.

For detailed Master’s thesis submission instructions, please visit:
https://www.brown.edu/academics/gradschool/masters-thesis-guidelines

D. Master of Science (Non-Thesis Track)
Candidates must complete a coherent plan of study based in engineering or engineering science consisting of eight graduate or advanced level courses. The program must include ENGN 2010/2020* (Mathematical Methods in Engineering and Physics) or their equivalent (must be 2000-level) and three additional 2000-level engineering courses other than ENGN 2980 (Special Projects: Reading Research and Design).

Courses in our Program in Innovation Management and Entrepreneurship (PRIME) are not acceptable for use as one of the 2000-level engineering classes. The remaining courses may include one ENGN 2980 class and up to three 1000-level Engineering, other approved science classes, or PRIME classes. Students should choose courses in consultation with their advisor to develop a coherent program. *Either ENGN 2010 or ENGN 2020 can be replaced by an alternate mathematics course with approval of the appropriate Graduate Representative and the Director of Graduate Studies.

The proposed program of study must be approved by the Director of Graduate Studies in the School of Engineering.
E. Master of Science (Non-Thesis Professional Track)
Candidates must complete a coherent plan of study based in engineering or engineering science consisting of eight graduate or advanced level courses. The program must include ENGN 2010/2020 (Mathematical Methods in Engineering and Physics) or their equivalent (must be 2000-level) and three additional 2000-level engineering courses other than ENGN 2980 (Special Projects: Reading Research and Design).

Courses in our Program in Innovation Management and Entrepreneurship (PRIME) are not acceptable for use as one of the 2000-level engineering classes. The remaining courses may include one ENGN 2980 class and up to three 1000-level Engineering, other approved science classes, or PRIME classes. Students should choose courses in consultation with their advisor to develop a coherent program. Either ENGN 2010 or ENGN 2020 can be replaced by an alternate mathematics course with approval of the appropriate Graduate Representative and the Director of Graduate Studies.

A paid or unpaid internship is a required component of the program. All internships must be pre-approved by the School of Engineering. Assistance in obtaining internships will be provided by the School and the Brown CareerLAB. The proposed program of study must be approved by the Director of Graduate Studies in the School of Engineering.

F. 5th Year Master’s Program
Engineering undergraduates with high academic standing may enter an integrated program leading to a Master of Science (Sc.M.) degree following receipt of their Bachelor of Science (Sc.B.) degree. Two relevant 1000- or 2000-level undergraduate courses may be transferred from the Brown undergraduate program even if they were used to satisfy Sc.B. degree requirements. The 5th Year Master’s program must be completed in one academic year.

Students must apply for the program through the Graduate School’s online application system prior to completing their undergraduate studies. Applicants are not required to take the GRE. Admitted students may defer their admission for up to two years. General requirements for the Sc.M. degree can be found in the Brown University Bulletin.

G. Professional Track Internship Information
Internships are traditionally utilized during the first summer of the Master’s program. You should start early (January is generally recommended) to try and find a suitable internship. Please refer to the CareerLAB Job Search Tool Kit and recommendations for resume preparation, interviewing, and general procedures to follow when deciding on an internship.

Consult the University Handshake site jobs listings, CareerLAB BrownConnect alumni hosted internships, or your own research/contacts/faculty referrals to find suitable options. The School of Engineering also holds a Career & Internship Fair every November.
Complete the Internship Approval Form and submit it to Associate Dean Jennifer Casasanto (Jennifer_Casasanto@brown.edu) before the end of the semester, or earlier if you are intending to get Curricular Practical Training (CPT) approval from OISSS. Note: You must never begin work before your internship is approved.

H. Cross-Registration
There are agreements in place between Brown and the Harvard University Faculty of Arts & Sciences as well as Brown and Rhode Island School of Design that allow for cross-registration of graduate students in courses without paying tuition to the host institution.

Cross-registration is available for ScM students. A request for cross-registration should be based on interest in specific courses that cannot be found at Brown University but are offered at the graduate level at the other institution. There is an academic performance threshold expected by the host institution and Brown. Each cross registration request is reviewed with these two criteria in mind. For details on the process, please consult the relevant section of the Graduate School Handbook.

XIII. ADVISING, THESIS AND GRADUATION

A. Selection of an Advisor

Students on the Thesis Track must select a thesis advisor for their ScM program before the end of their first semester. The process begins with the student contacting a faculty member whom they would like to serve in this capacity. Present your potential research project, then ask the faculty if they would be interested in serving as your advisor. At the start of the first term, all students will receive a Master’s Proposal form distributed during orientation. Students will be asked to list their course plan and option of Thesis, Non-Thesis, or Non-Thesis Professional Track. The form must be completed and submitted to Kathleen DiOrio, Graduate Program Coordinator, within the first two weeks of the fall term. You should meet with your advisor at least once a semester for approval on all coursework.

International students must be full-time at all times throughout their academic program, with few exceptions:

- Documented medical reasons (up to a maximum of one year)
- Documented academic reason (one semester only)
- During the last semester of coursework (enrollment in only one course is permitted)
- PRIME Students: See separately the requirements for the Program in Innovation Management and Entrepreneurship (PRIME).

B. Selection of a Research Project
The selection of a research project is an extremely important step in a student’s degree program. The student will work on this project for a significant amount of time and will be associated with it for the rest of their career; therefore, the decision will take time and should not be taken lightly. Selection of a research project will result from discussions with your advisor and the student’s personal areas of interest. The selection of a research project should take place during the second semester of enrollment.

C. Finalization of Degree

All students who plan to receive a degree in May must file an Application to Graduate in Banner Self-Service no later than the last business day in April of their commencement year. If your plans change after filing the application, the Registrar must be informed immediately.

Your completed application first goes to the Registrar and then is sent to Engineering where it is reviewed for completion of requirements by the School of Engineering Student Affairs and the Director of Graduate Studies. There are specific requirements for students who are “thesis” or “non-thesis” status. This status is determined by the student (with advisor confirmation) by the second semester of the Master of Science degree program. Applications to graduate are reviewed in the fall for December graduates and then again in the spring for May graduates. Note: There is no December commencement ceremony – all students eligible to graduate participate in the May commencement.

If your application to graduate is not submitted by the above dates, the Graduate School will deny the application and you will be required to register for the following semester. For additional information, please visit https://www.brown.edu/academics/gradschool/about/commencement

D. Attending Commencement

For those planning to attend Commencement, you also must register to participate in the Sunday, May 26, 2019 Commencement Procession and Graduate School Ceremony. When you register, please identify any awards and honors you received while a graduate student at Brown for possible inclusion in the Commencement program. Please do so regardless of whether you plan to attend the ceremony.

The Graduate School offers detailed information on planning for and attending Commencement.

XIV. MISCELLANEOUS

A. Community: The Graduate Council

Graduate Student Council

The Graduate Student Council (GSC) helps to foster a sense of community among graduate students across departments, to facilitate collective action on graduate student issues, and to be a
voice for the graduate community. It provides events and resources (such as alternate source for conference funding) to support the academic and social lives of Brown graduate students.

The GSC hosts yoga, fitness, dance and other classes open to current Brown graduate students in the Graduate Lounge, all free of charge.

B. Wellness Resources

When Brown students are psychologically healthy, they perform better academically, they form and sustain more meaningful relationships, and have the ability to make the most out of their time at Brown and beyond. We are committed to supporting the wellness of our students and have created a space for relaxation within the walls of the Engineering Research Center (ERC). Our Wellness Room is located on the 2nd floor of the ERC, Room 203. Use of this space must be reserved in advance and can be reserved in 30-minute increments twice daily. This room is for wellness use only, including mental health, for nursing mothers, and for private conversations with health care providers. Priority is given to nursing mothers, both in scheduling priority and unlimited usage. Check the online schedule for room availability and to make your reservation. You will receive a Google calendar confirmation once you have scheduled the room.

Counseling and Psychological Services (CAPS) provides crisis intervention, short-term individual therapy, group therapy, community outreach, and referral services. They offer consultation to students, faculty and staff who are concerned about the well-being of students. Walk-in appointments are free of charge and confidential. CAPS is located in the J. Walter Wilson Building, 5th floor, Room 512. Open hours are Monday - Friday, 8:30 am to 5 pm. To make an appointment, please call (401) 863-3476 or visit JWW, Room 512.

Dean Maria Suarez serves in the Graduate School as Associate Dean of Student Support and is well-versed in challenges and issues unique to graduate students. Graduate students may see her to discuss:

- Support practices and policies
- Medical and personal leave
- Liaison to the Offices of Campus Life and Student Services, Institutional Diversity, Student and Employee Accessibility Services, as well as to Counseling and Psychological Services

Meeting times with Dean Suarez are available through online self-scheduling and by appointment.

Friends are often the first to notice that a student might be experiencing high levels of distress. Please access these resources for a friend in distress as needed. We hope you never feel that you are alone or that you need to solve difficult situations by yourself. Many university services stand ready to assist you in an emergency.
C. Student Life Resources

**Academic Support** (Office of the Dean of the College, University Hall): Provides academic support services that supplement the support provided by course instructors.

**Brown Center for Students of Color** (68 Brown Street): The Brown Center for Students of Color is a student-focused center designed to provide students of color with a base for social, academic, administrative, cultural, and organizational support.

**Brown Recreation**: Information about on-campus fitness facilities, aquatics, and club sports.

**Health Education Services** (13 Brown Street): Make an appointment with the nutritionist, talk with a Health Educator about alcohol or sexual health, and get information about sexual assault.

**CareerLAB** (167 Angell Street): CareerLAB works in collaboration with academic departments to connect students with career resources; help students identify their skills, interests and values and to explore a wide range of career options; and to articulate their unique experiences to employers.

**Counseling and Psychological Services (CAPS)**, 69 Brown Street, Room 512: Provides crisis intervention, short-term individual therapy, group therapy, community outreach, and referral services.

**Graduate Student Professional Development**, Horace Mann, 47 George Street: Development opportunities include advanced teaching opportunities, Global Mobility grants and research travel funds, interdisciplinary scholarly opportunities at Centers and Institutes, communications workshops and public research talks, and a series on exploring careers in higher education administration.

**Health Services**, 13 Brown Street: Your resource for emergency medical services, non-urgent medical care, and confidential sexual assault hotline. **Bwell Health Promotion** provides educational resources for nutrition, sexual health, sexual assault and dating violence, physical and emotional health, alcohol and drug use, and more.

**LGBTQ Center** (Stephen Robert ’62 Campus Center, Room 321): Provides a comprehensive range of education, information and advocacy services and works to create and maintain an open, safe, and inclusive environment for lesbian, gay, bisexual, transgender, queer and questioning students, faculty, and staff, their families and friends, and the campus community at large.

**Office of the Chaplains and Religious Life** (Page Robinson Building, Room 410): Works to ensure that a diversity of beliefs has voice and vitality throughout the University community. OCRL sponsors programs, coordinates a broad set of chaplains and affiliates that advise a breadth of spiritual traditions, and hosts open office hours to meet with university Chaplains.
**Office of Institutional Equity & Diversity** (Horace Mann 3rd Floor): Provides leadership for the formulation and oversight of policies related to pluralism and equity and initiates programs and practices that promote diversity, inclusion, and fair treatment for all members of the Brown community.

**Office of International Student and Scholar Services** (Page Robinson Building, 3rd Floor): Facilitates the integration of international students and scholars into the Brown community. OISSS provides workshops and advising services on immigration and visa matters, work permission, orientation, cultural adjustment and personal concerns.

**Division of Campus Life** (20 Benevolent Street): Provides a variety of services, support and outreach to undergraduate, graduate, and medical students designed to promote academic achievement and personal development.

**Office of Military-Affiliated Students** (Stephen Robert ’62 Campus Center, 75 Waterman Street): Brown is committed to building a community that actively supports veterans who are beginning, returning to, or advancing their pursuit of higher education. This office supports the experience of all student veterans, including those who served in the military for countries other than the United States.

**Ombuds Office** (Hillel Building, 80 Brown Street, 3rd Floor): The Ombuds Office provides an independent, confidential, neutral and informal resource for faculty, staff, postdoctoral fellows and associates, graduate students and medical students who have concerns arising from or affecting their work and studies at Brown.

**Sarah Doyle Center for Women and Gender** (26 Benevolent Street): Seeks to provide a comfortable, yet challenging place for students, faculty, and staff to examine the multitude of issues around gender. The Center offers programs and services for all members of the Brown community and is a site for research into and exploration of gender issues that extend into and beyond the classroom.

**SHARE Advocates (Sexual Harassment and Assault Resources and Education)** (13 Brown Street): Confidential services include support for a survivor or friends of a survivor, help filing a complaint (if that is the student's choice), and help navigating resources at Brown and the community.

**Sheridan Center for Teaching and Learning** (201 Thayer Street, 7th floor): Provides practical advice about teaching and professional development; promotes best practices and promising new practices in teaching; supports instructors as they launch and develop their professional careers.

**Student and Employee Accessibility Services (SEAS)** (20 Benevolent Street): SEAS coordinates and facilitates services for students (including graduate students and postdoctoral trainees), faculty, staff and visitors with physical, psychological, and learning disabilities.
**Substance Abuse Support:** The University dedicates resources to support students in recovery from addiction and substance use disorders, and to assist all students negatively affected by their own or others' substance use. The Dean of the College office and the Division of Campus Life provide overlapping services to students with substance use disorders, to develop campus policies regarding alcohol and other drugs, and to educate all members of the campus community about alcohol and drugs and their effects. For more information about available services, please contact Dean for Recovery and Substance-Free Student Initiatives, Shannon O'Neill in the Office of the Dean of the College.

**D. Attending School Seminars and Talks**

A key component to being a successful graduate student is intellectual curiosity. As such, the department strongly encourages the attendance of all graduate students at all thesis defenses. Ongoing Engineering seminars are held throughout the year by visiting scholars and other professionals which we also encourage you to attend. You may view the calendar to see current and upcoming school-wide activities.

**E. Writing Resources**

In graduate school, it is expected that students become proficient in technical writing, including but not limited to class reports and summaries, term projects, technical papers, thesis or dissertation proposals, and thesis or dissertations. The Writing Center, located in the Sciences Library, 201 Thayer Street, 5th Floor, is an excellent resource accessible to all Master’s students.

Additional library resources for research on engineering-related topics.

**Other Writing Resources:**


**F. Engineering Contacts**

**STAFF**
A School of Engineering Staff Directory may be found at [http://www.brown.edu/academics/engineering/people](http://www.brown.edu/academics/engineering/people) or, for a university-wide People Search, [http://directory.brown.edu/search](http://directory.brown.edu/search)
FACULTY
Visit the School of Engineering website for a listing of our current faculty and areas of expertise:
http://www.brown.edu/academics/engineering/people/faculty

GRADUATE STUDENTS
A full graduate student directory, including PhD and Master’s students, may be found at:
https://www.brown.edu/academics/engineering/graduate-student-directory