Registration Guidance for Students Entering the MS in Chemical Engineering (CHME) Program in Fall 2024:

Congratulations on your acceptance to the MS in Chemical Engineering program at Northeastern University!

**How do I register for classes?** To be able to register for classes, admitted students need to first confirm their enrollment and pay their enrollment deposit. Students may do so by logging into their [application portal](https://mynortheastern.northeastern.edu). Please register as soon as you can to ensure you have a spot in the courses you need.

Please watch the following webinars for instructions on how to register using your MyNortheastern Student Hub account:

- Course Search Webinar: [Schedule of Classes - Office of the University Registrar Knowledge Base](https://northeastern.edu)
- Course Add/Drop Webinar: [Registering for Classes - Office of the University Registrar Knowledge Base](https://northeastern.edu)

**IMPORTANT NOTE:** The curriculum for the MS in Chemical Engineering Program is changing effective Fall 2024, with the addition of three concentrations to choose from. However, these changes will not appear online until the new year’s catalog is published, which should be on or after July 1, 2024. Please read this guidance carefully to plan appropriately based on your desired concentration.

**What are the new concentrations?**
The new concentrations within the MS in Chemical Engineering Program are:

1. **Biosystems** (Coursework option)
2. **Sustainability** (Coursework option)
3. **General Principles & Applications** (MS Project or MS Thesis options)

**Which concentration should I choose?**
This depends on your goals in obtaining an MS in Chemical Engineering and your future plans. Importantly, you should know that you can pursue Co-op opportunities, take any of our elective courses, and participate in research as part of all three concentrations.

If you are considering pursuing a PhD or a career in research following completion of the MS degree, then we recommend choosing the General Principles & Applications concentration. Students choosing this concentration will learn more about the research process, meet with potential faculty research advisors, and rotate through different research labs during the first Fall semester.

If you want to focus more on advanced coursework in either Biosystems or Sustainability, then we recommend choosing the matching concentration. You can still look to join a research lab as a volunteer or for up to 4 credits of elective course credit (with approval by the program advisor).

**When do I choose my concentration officially?**
For now, you only need to review the information and guidance in this document and register for the appropriate courses for the concentration you want to choose. Once the concentrations are officially available (on or after July 1st, 2024), you can officially register for them. We will provide additional information at orientation in the Fall and via e-mail communications.

**Can I change my concentration later?**
Yes, there will be many opportunities to consider changing your concentration. We recommend deciding and sticking with it by the end of the first Fall semester, however it may still be possible to change beyond that point. Students interested in changing their concentration should talk to the Associate Director of MS Programs, Prof. Adam Ekenseair, and their Graduate Student Services (GSS) Academic Advisor (at [coe-chme-gradadvising@northeastern.edu](mailto:coe-chme-gradadvising@northeastern.edu)) to look over the options.

**What courses will I take in each concentration?**
Once the catalog website is updated (on or after July 1st, 2024), you will be able to see all the requirements and options for each concentration. Here is a summary:

1. **Biosystems**
   a. 6 credits of common core (CHME 6310 & CHME 6320)
   b. 2 semesters of CHME 6390 (0 credits)
   c. 6 credits of concentration core (CHME 6430 & either CHME 5160 or 5630)
   d. 8 credits of depth electives (CHME 5160/5185/5515/5630/5631/5632/5683)
   e. 12 credits of breadth electives (many options available)
What courses should I register for in Fall 2024 if I do NOT hold a BS degree in Chemical Engineering?
For those students who have not previously completed a bachelor’s degree in chemical engineering, we recommend that everyone register for the below courses (regardless of desired concentration):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Course Title</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 5101</td>
<td>12657</td>
<td>Fundamentals of Chemical Engineering Analysis</td>
<td>4</td>
<td>Mondays &amp; Wednesdays, 5:45 – 7:25 pm</td>
</tr>
<tr>
<td>CHME 6310</td>
<td>20360</td>
<td>Python for Chemical Engineers</td>
<td>2</td>
<td>Fridays, 1:35 – 3:15 pm</td>
</tr>
<tr>
<td>CHME 6320</td>
<td>20361</td>
<td>Numerical and Statistical Methods for Chemical Engineering</td>
<td>4</td>
<td>Mondays &amp; Wednesdays, 2:50 – 4:30 pm</td>
</tr>
<tr>
<td>CHME 6390</td>
<td>TBA*</td>
<td>Professional Development &amp; Communication Essentials</td>
<td>0</td>
<td>Fridays, 11:45 am – 1:15 pm</td>
</tr>
</tbody>
</table>

*This course will become available later this summer. It is required for the first two semesters in the program.

What courses should I register for in Fall 2024 if I DO hold a BS degree in Chemical Engineering?
For those students with a bachelor’s degree in chemical engineering, here are concentration-specific recommendations:

For the Fall 2024 Semester, students WITH a CHME BS degree should register for:

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
<th>Credits</th>
<th>Time</th>
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<tbody>
<tr>
<td>CHME 6310</td>
<td>20360</td>
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</tr>
<tr>
<td>CHME 6320</td>
<td>20361</td>
<td>Numerical and Statistical Methods for Chemical Engineering</td>
<td>4</td>
<td>Mondays &amp; Wednesdays, 2:50 – 4:30 pm</td>
</tr>
<tr>
<td>CHME 6390</td>
<td>TBA*</td>
<td>Professional Development &amp; Communication Essentials</td>
<td>0</td>
<td>Fridays, 11:45 am – 1:15 pm</td>
</tr>
<tr>
<td>CHME 5160</td>
<td>20358</td>
<td>Drug Delivery: Engineering Analysis</td>
<td>4</td>
<td>Wednesdays, 4:35 – 7:55 pm</td>
</tr>
<tr>
<td>CHME 5631</td>
<td>12326</td>
<td>Biomaterials Principles and Applications</td>
<td>4</td>
<td>Tuesdays &amp; Thursdays, 5:35 – 6:15 pm</td>
</tr>
<tr>
<td>CHME 5515</td>
<td>20359</td>
<td>Process Safety Engineering for Biotechnology and Pharmaceutical Industries</td>
<td>4</td>
<td>Tuesdays &amp; Fridays, 9:50 – 11:30 am</td>
</tr>
</tbody>
</table>

*This course will become available later this summer. It is required for the first two semesters in the program.
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If you want to map out a different schedule, please keep in mind that some key courses are only offered in the Fall semester (CHME 6310, 6320, and 7330) or the Spring semester (CHME 6410, 6420, 6430, 7340, and 7350).

What if I want to take courses Part-Time?
Domestic students wanting to take less than 8 credits of coursework per term should reach out to their Graduate Student Services (GSS) Academic Advisor (at coe-chme-gradadvising@northeastern.edu) once enrolled to submit a petition to change their status to Part-Time (all students are admitted as Full-Time by default). International students interested in Part-Time status are strongly encouraged to also consult with the Office of Global Services to verify if this is allowed per their visa status.

What if I want to take an additional/elective course?
Please know that even just 8 credits of coursework is considered a Full-Time load for graduate students, and there is an upper limit of no more than 13 credits of coursework per term. The above recommendations put you on a path to potentially complete the degree in 1.5 years (with 10 credits the first Fall and Spring, and then 12 credits the following Summer/Fall) without a Co-op, or in 2 years with a Co-op. Keep in mind that graduate-level coursework can be more challenging than typical undergraduate courses.

To check which courses are being offered (and days/times) each semester, you can search the Course Schedule:

1. Term – For example: “Spring 2024 Semester”
2. Subject – “CHME”, etc. depending on the department(s) you want to search for course availability
3. Under Advanced Searches – “Graduate” for Course Level

What if my course is full?
Do not panic! Enrollments are always shifting as students get Co-ops or change their course registrations. If a seat is not available in your preferred classes right away, you can join the waitlist. To join a waitlist, enter the class CRN (a unique, 5-number identifier for each section) directly into your registration sheet and hit submit. You will then have an option to select “waitlist” from a drop-down menu. The waitlist system will automatically inform you when a seat opens - just log into your account and accept it within the 24-hour time limit! Having students on the waitlist for a course is also how the department will know to consider expanding the registration cap if that is feasible based on the assigned classroom space or to potentially offer an additional section.

<table>
<thead>
<tr>
<th>Sustainability Concentration:</th>
<th>For the Fall 2024 Semester, students WITH a CHME BS degree should register for:</th>
</tr>
</thead>
</table>
| CHME 6310  
CRN: 20360  
Python for Chemical Engineers  
2 credits  
Fridays, 1:35 – 3:15 pm | |
| CHME 6320  
CRN: 20361  
Numerical and Statistical Methods for Chemical Engineering  
4 credits  
Mondays & Wednesdays, 2:50 – 4:30 pm | |
| CHME 6390  
CRN: TBA*  
Professional Development & Communication Essentials  
0 credits  
Fridays, 11:45 am – 1:15 pm | |
| CHME 5621  
CRN: 15341  
Electrochemical Engineering  
4 credits  
Tuesdays & Fridays, 9:50 – 11:30 am | |

*This course will become available later this summer. It is required for the first two semesters in the program.

<table>
<thead>
<tr>
<th>General Principles &amp; Applications Concentration:</th>
<th>For the Fall 2024 Semester, students WITH a CHME BS degree should register for:</th>
</tr>
</thead>
</table>
| CHME 6310  
CRN: 20360  
Python for Chemical Engineers  
2 credits  
Fridays, 1:35 – 3:15 pm | |
| CHME 6320  
CRN: 20361  
Numerical and Statistical Methods for Chemical Engineering  
4 credits  
Mondays & Wednesdays, 2:50 – 4:30 pm | |
| CHME 6390  
CRN: TBA*  
Professional Development & Communication Essentials  
0 credits  
Fridays, 11:45 am – 1:15 pm | |
| CHME 7330  
CRN: 12648  
Chemical Engineering Thermodynamics  
4 credits  
Tuesdays & Thursdays, 5:45 – 7:25 pm | |

*This course will become available later this summer. It is required for the first two semesters in the program.
**Will I get a bill from registering?**
Yes, your first e-bill is generated when you register for your courses. You will receive an e-bill from the University with instructions on how to pay the e-bill. If you have questions about payment, please contact the [Student Financial Services](#) office directly.

**What if I am transferring credits from another institution or degree program?**
Students who are transferring credit for core and/or elective courses should talk with the [Associate Director of MS Programs](#), Prof. Adam Ekenseair, and their Graduate Student Services (GSS) Academic Advisor (at coe-chme-gradadvising@northeastern.edu) to determine an appropriate plan of study. You will be able to easily add or drop courses using the online registration system for the first two weeks of the term.

**What if I am interested in the Gordon Engineering Leadership Program?**
If you are considering the Gordon Engineering Leadership program, please discuss your interest with your Graduate Student Services (GSS) Academic Advisor at Orientation. You should still register for the above-listed courses.

**What if I am interested in the Co-op Program?**
Before going on a Co-op, students need to have completed their first two semesters (16 credits). A Co-op preparatory course, ENCP 6100, must also be completed during the second semester at the earliest. Find out more [here](#). If you have further questions, contact your Co-op team at ChemEGradCoop@northeastern.edu

**What if I already have some equivalent coursework?** Students who have already completed an equivalent course that counted towards a prior degree may be eligible to waive some of the required core coursework by petitioning the department’s Graduate Committee. Consult with the [Graduate Committee](#) and the department Academic Coordinator Cindy Rinear for advice and be prepared to provide transcripts and syllabi. Please note that this is different than transferring in credit from another university. Waiving the requirement just allows you to take a different course instead (with approval of the program advisor) to fulfill the 32 credits that are required for the degree.

**Meeting with your Chemical Engineering Department faculty advisor:**
Students will be advised by the [Associate Director of MS Programs](#) for programmatic and big-picture questions, with meetings to be scheduled once per year or as desired.

**Meeting with your Graduate Student Services Academic Advisor:** For questions related to registration errors and issues, program requirements, and questions about GSS forms, please email coe-gradadvising@northeastern.edu to be connected with your academic advisor. You can find more information about the academic advisors [here](#).

For more information about beginning your program at Northeastern University, please read your acceptance letter in full.

We look forward to welcoming you to the Graduate School of Engineering!

Sincerely,

The Chemical Engineering Department