

Information on the Chemical Engineering BS/MS Program at WPI

The BS/MS program allows students to get both BS and MS degrees faster than getting both degrees separately. Students can double-count certain undergraduate courses toward the MS degree requirements, and with careful planning finish the MS degree in a fifth year.

What are the steps?

1. Apply and be accepted into the program.

<https://www.wpi.edu/admissions/graduate>

This is necessary in order to double-count any undergraduate courses towards the MS degree.

2. Double-count undergraduate courses.

Only certain undergraduate courses may double-count towards the MS degree, up to a maximum of four courses. See the list below. Only a grade of "B" or higher will be accepted. You may also petition the departmental graduate committee to double-count other 4000-level courses.

Allowed Undergraduate Courses (Four Maximum Allowed to Double-Count)

- CHE 3501 Applied Mathematics in Chemical Engineering
- CHE 4405 Chemical Process Dynamics and Control Laboratory
- MQP Major Qualifying Project (1/3 unit maximum)
- An Independent Study in Chemical Engineering at the 4000 level (1/3 unit maximum)

Only One of the Following May Count:

- CHE 4401 Unit Operations of Chemical Engineering I
- CHE 4402 Unit Operations of Chemical Engineering II

Only One of the Following May Count:

- CHE 4404 Chemical Plant Design Project
- CHE 4410 Chemical Process Safety Design

3. Demonstrate graduate-level competence

In order to double-count the above-listed undergraduate courses, you must demonstrate graduate-level competence within the course. This will typically be an extra project, literature review, or some other assignment. Before you take these courses notify the instructor that you intend to count these courses towards the MS degree. The instructor will let you know what extra work you must complete. After the course is over, sign and complete the form below, and then scan/send the signed form to the departmental graduate committee through the graduate program Canvas site. If you need to be added to the Canvas site email Professor Deskins.

4. Take one or more graduate course while an undergraduate

Besides double-counting undergraduate courses towards the MS degree, you should complete one or more graduate courses during your junior or senior year to ensure you can finish the MS degree in a fifth year. We offer several graduate electives as term courses, and many are suitable for undergraduates.

5. Contact the Graduate Committee Chair with any questions

Professor Deskins can answer any other questions you may have. nadeskins@wpi.edu

You can also find answer to many questions here: <https://wiki.wpi.edu/deskinsgroup/BS/MS>.

Form for Double-Counting Courses for BS/MS Degrees

This form is to certify that the student indicated below has demonstrated graduate-level quality work (such as through an extra project, literature review, or other assignment) in order to count the course towards the MS degree. Upload a scanned copy to the department's graduate program Canvas site, under "Assignments". If you need to be added to the Canvas site email Professor Deskins.

Student: _____

Date: _____

Course: _____

Description of Assignment: _____

Student Signature: _____

Instructor Signature: _____

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