

# CHEMICAL AND BIOLOGICAL ENGINEERING BS/MS

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## Degree Requirements

The following requirements are in addition to, or further elaborate upon, those requirements outlined in The Graduate School Policy Guide (<https://catalogs.northwestern.edu/tgs/academic-policies-procedures/>).

## BS/MS

**Total Units Required for the Master's Degree: 10<sup>1</sup>**

The degree requirements are the same as "Coursework Master's" or "Thesis Master's" as outlined for the MS program (<https://catalogs.northwestern.edu/tgs/chemical-biological-engineering/chemical-biological-engineering-ms/>).

## Prerequisites

Although students do not need to be enrolled in the chemical engineering major to be admitted, the MS programs will expect a level of substantive competency equivalent to the completion of the following courses:

- Thermodynamics (CHEM\_ENG 211-0 Thermodynamics preferred, or equivalent)
- Fluid mechanics (CHEM\_ENG 321-0 Fluid Mechanics or equivalent)
- Heat or mass transfer (CHEM\_ENG 322-0 Heat Transfer or CHEM\_ENG 323-0 Mass Transfer, or equivalent)
- Kinetics/reaction engineering (CHEM\_ENG 307-0 Kinetics and Reactor Engineering)

<sup>1</sup> Courses may not double count between the MS and the BA/BS. 10 new units of MS level coursework are required for the completion of the MS degree.