

# BSE Chemical Engineering / MSE Chemical Engineering Engineering Global Leadership Honors Program

Engineering Global Leadership (EGL) is a specialization within the College of Engineering Honors Program. EGL allows students to complement their chemical engineering background with an understanding of global business and operations. The EGL specialization leads to two degrees: a BSE ChE and MSE ChE degree. The EGL specialization itself is not a SUGS (sequential undergraduate graduate studies) program, so there is no double counting of credits. However, EGL students may apply for the ChE masters program through the SUGS program, which would allow for double counting of credits. Students pursuing dual degrees are not eligible to enroll in SUGS programs.

## Admission:

1. Students are encouraged to apply for the program after they have declared Chemical Engineering as their undergraduate major and have completed at least two terms in College of Engineering.
2. 2021-2022 applicants: the Engineering Honors Program does not have a minimum required GPA for applicants.
3. Admission to the Chemical Engineering Master's portion of the program is NOT guaranteed. Students are subject to the same admissions requirements as other Master's degree applicants.

## Requirements:

1. All 128 credits of Chemical Engineering BSE requirements must be met, and students most likely will exceed 128 credits to fulfill the undergraduate portion of the EGL requirements. The following modifications to the standard BSE ChE sequence apply.

### *Intellectual Breadth requirements*

- 16+ Credits of coursework approved towards completion of the International Minor for Engineers (all EGL students must complete the International Minor for Engineers)
- 4 Credits of Economics 101, as required by the BSE ChE program

### *Technical and General Electives*

- 3 Credits of a faculty-monitored Honors capstone project/internship that allows an opportunity to place classroom learning in an applied context. This requirement is satisfied by participation in the Tauber Institute for Global Operations
  - 9 Ross School of Business credits – MFG 501, TO 605 (both required for Tauber) and 4.5 credits of Ross Business electives.
  - 3 Honors seminar credits – 1 credit should be completed each academic year
2. All 30 credits of Chemical Engineering MSE requirements must be met. The following modifications to the standard MSE ChE sequence apply.
    - 21 graduate credits of Chemical Engineering coursework.
      - These **must** include the following courses:

ChE 527: Fluid Flow (3 cr.)  
ChE 528: Chemical Reaction Engineering (3 cr.)  
ChE 538: Statistical and Irreversible Thermodynamics (3 cr.)  
ChE 542: Intermediate Transport Phenomena (3 cr.)  
ChE 505: Math for Chemical Engineers (3 cr.)

-These **may** include ChE 595 (Research Survey, 1 credit) and up to six credit hours (total) of:

ChE 695: Research  
ChE 698: Directed Study or Practical Training **\*\***(Performed outside the University)**\*\***

- 6 credits of graduate-level Ross School of Business courses – See list of acceptable courses for graduate credit.
- 3 credits of cognate course, outside of ChE

## CONTACTS

### Undergraduate:

Lisa Clark, 3142 Dow, (734) 763-7125, [cheugadvising@umich.edu](mailto:cheugadvising@umich.edu)  
<http://www.che.engin.umich.edu/undergraduate/masters-sugs>

### Engineering Global Leadership, College of Engineering Honors Program

Rachel Armstrong-Ceron, 251 Chrysler Center, (734) 489-1673, [armstra@umich.edu](mailto:armstra@umich.edu)  
<https://honors.engin.umich.edu/egl/>

### International Programs in Engineering - for International Minor

Miranda Roberts, 245 Chrysler Center, (734) 764-6676, [robertmk@umich.edu](mailto:robertmk@umich.edu)  
[www.engin.umich.edu/ipe](http://www.engin.umich.edu/ipe)

### Graduate:

Prof. Robert Ziff, NCRC Bldg 28 - G059, (734) 764-5498, [rziff@umich.edu](mailto:rziff@umich.edu)  
Ms. Susan Hamlin, NCRC Bldg 28 - G040S, (734) 763-1148, [hamlins@umich.edu](mailto:hamlins@umich.edu)  
[www.che.engin.umich.edu/graduate/program](http://www.che.engin.umich.edu/graduate/program)