

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

(NOT an SGUS program)

The Engineering Global Leadership Honors Program (EGL) allows students to complement their chemical engineering background with courses in the Ross School of Business, and global-focused courses in LS&A. The program produces students capable of communicating across the engineering and business boundary and operating comfortably in another culture. The program leads to two degrees: a BSE ChE and an MSE ChE degree. There is no double counting of credits.

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 one term in the College of Engineering.
2. Students must have at least a 3.55 cumulative GPA to apply to the program, and be interviewed by the admission committee. A 3.60 cumulative GPA is required by the end of the semester in which the student is interviewed for admission.
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. In particular, while students are allowed by EGL program requirements to maintain a GPA as low as a 3.4, it is recommended that a higher GPA be maintained to ensure admission to the Master's program.

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 requirement. The following modifications to the standard BSEChE sequence apply.

HU/SS requirements (24 credits)

- 12 credits of cultural core, dedicated to a particular region of the world of economic importance to the US. Regions include: Eastern Europe, Western Europe, South America, Asia, Southeast Asia. Courses pertaining to the region can cover any historical point in time. Note the following constraints:
 - These credits can include at most 6 credits of 100-level foreign language courses (in a classroom setting)
 - At most 6 advanced placement and transfer credits from domestic institutions
 - Transferred credits from study abroad in the chosen cultural region
 - At most one "general regional area" course, such as International Economics.
 - Up to 3 credits may be waived if the student's study abroad, in the chosen cultural core region, results in these credits being transferred back to UM.
 - Up to 3 credits may be waived if the student works abroad, in the chosen cultural core region, for an appreciable length of time.

- 8 credits or two semesters of the same 2nd year language related to the chosen cultural core region. This language cannot be the student's native language. This requirement may be satisfied with a placement exam offered by the appropriate department.
- 4 credits of Economics 101, as required by the BSEChE program

Technical and free electives (9 credits)

- 3 credits of a faculty-monitored synthesis design project, or internship, that allows an opportunity to place classroom learning in an applied context. This requirement is normally satisfied by participation in the Tauber Manufacturing Institute. However, in some circumstance (and with prior approval of the EGL program) Eng 490, Engineering for Community, may be taken to fulfill this requirement.
 - 6 Business School credits – See list of courses acceptable for undergraduate credit.
2. All 30 credits of Chemical Engineering MSE requirements must be met. The following modifications to the standard MSEChE 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.)
 - One math/modeling/thermo course: ChE 507, 510, 554, or an approved course outside ChE
 - 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 Business School courses – See list of acceptable courses for graduate credit.
 - 3 credits of cognate credits, outside of ChE and outside of the Business School.

CONTACTS

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Engineering Global Leadership Honors Program

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