

Use your **Academic Requirements Report on SPIRE** to see which graduation requirements *you* have already fulfilled and which you still need to complete in order to graduate. These include GPA, General Education, and Major requirements.
Please remember to empty your SPIRE shopping cart after you have registered for classes.

2. Advanced Chemistry Elective

POLYMER 501

or

Any 3 or 4 credit Chem or BioChem course

at the 200-level or above.

Exceptions:

Chem 250, Chem 330, Chem 471, BioChem 471

5. Effective May 1, 2018, to be eligible to enter a BS degree program in engineering, a student must have a grade of C or better in the following classes:
 - EnglWrit 112
 - Math 131 & Math 132
 - Engin 100, 110, 111, 112, 113 or 114
 - Physics 151
 - Chem 111 or Physics 152
 - 2nd semester Engineering Intro course satisfying major requirement (i.e., ChE 120 or CEE 121 or ECE 122 or MIE 124)
 - Cumulative and most recent regular semester, a GPA of 2.0.

1. General Education: Social World Courses

The Social World requirement consists of **four courses** with the following designations:

- AL/AT
- SB
- HS
- AL, AT, SB, I or SI
- Integrative Experience (ChE 401)

*** Of these four Social World Courses**

one must have a

Global Diversity designation (DG)

and another must have an

United States Diversity designation (DU)



*** All entering students, freshmen and transfers, are required to take one of their two required diversity courses within their first year on campus.**

ChE Majors must take 4 Technical Electives. At least 2 must be in Engineering.

3. Approved Engineering Tech Electives

SCH-MGMT 593, SCH-MGMT 597,

and

Any 3 or 4 credit course at the 200-level or above

In BME, ChE, ECE, MIE, CEE, or POLYMER

Exceptions: BME 210, CEE 250, CEE 357, MIE 230, MIE 340, and MIE 354

*Students completing the **Engineering Management Minor** should note that the EMM foundation courses*(see box to the right) are **all** prerequisites of the Capstone Course, **SCH-MGMT 597(Fall only)**. Please speak with an SOM advisor when making courseplans.*

Approved Non-Engineering Tech Electives

ACCTG 221, FIN 301, MGT 301, MKTG 301,

OIM 301, STATISC 501, and

Any 3 or 4 credit course at the 200-level or above

In Math, Physics, Bio, CompSci, Chem, Biochem, or MCB

Exceptions: Chem 250, Chem 330, Chem 471, Biochem 471, and Math 370

Note: While the department accepts the business classes listed above as tech electives, we have no ability to facilitate enrollment in Isenberg courses.

4. Students are allowed to count **ONE** Independent Study towards their required Tech Electives. However, if you are in the departmental honors program, you will need to take both ChE 499Y & ChE 499T during your senior year & these will both count towards your Engineering Technical Electives.

CHEMICAL ENGINEERING

Curriculum for Students Who Entered **AFTER** June 2019

First-Year		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<input type="checkbox"/> (3credits) ENGLWP 112 <input type="checkbox"/> (3) ENGIN 110 <input type="checkbox"/> (4) MATH 131 <input type="checkbox"/> (4) CHEM 111 <input type="checkbox"/> (4) * Social World Elective ¹ <input type="checkbox"/> (1) **ENGIN 191 – Freshman Seminar	<input type="checkbox"/> (3) ChE 120 Fundamentals <input type="checkbox"/> (4) PHYSIC 151 <input type="checkbox"/> (4) MATH 132 <input type="checkbox"/> (4) CHEM 112	<input type="checkbox"/> (4) PHYSIC 152 <input type="checkbox"/> (3) ChE 226 Thermo I <input type="checkbox"/> (4) ***ChE 220 - Bio Requirement <input type="checkbox"/> (4) MATH 233 <input type="checkbox"/> (3) CHEM 261	<input type="checkbox"/> (3) ChE 231 Mathematical Modeling <input type="checkbox"/> (3) ChE 325 Thermo II <input type="checkbox"/> (3) MATH 331 <input type="checkbox"/> (3) CHEM 262 <input type="checkbox"/> (2) CHEM 269	<input type="checkbox"/> (3) ENGIN 351 <input type="checkbox"/> (3) ChE 320 Kinetics <input type="checkbox"/> (3) ChE 330 Fluid Mechanics (3) <input type="checkbox"/> (3) ChE 475 (PChem) <input type="checkbox"/> (3) Technical Elective ³	<input type="checkbox"/> (3) ChE 333 Heat and Mass Transfer <input type="checkbox"/> (3) ChE 338 Separations <input type="checkbox"/> (3) Adv CHEM Elective ² <input type="checkbox"/> (3) Technical Elective ³ <input type="checkbox"/> (4) Social World Elective ¹	<input type="checkbox"/> (4) **** ChE 401 Senior Lab <input type="checkbox"/> (3) ChE 444 Chem Process Design I <input type="checkbox"/> (3) ChE 446 Process Control <input type="checkbox"/> (4) Social World Elective ¹	<input type="checkbox"/> (4) ChE 402 <input type="checkbox"/> (2) ChE 447 Chem Process Design Project <input type="checkbox"/> (3) Technical Elective ³ <input type="checkbox"/> (3) Technical Elective ³ <input type="checkbox"/> (4) Social World Elective ¹
19 Credits	15 Credits	18 Credits	14 Credits	15 Credits	16 Credits	14 Credits	16 Credits

* All entering students, freshmen and transfers, are required to take one of their two required diversity courses within their first year on campus.

** All Engineering students are required to enroll in a 1-credit Freshman Seminar in their first semester.

*** All ChE majors are expected to take ChE 220. Exceptions: 1.) We will accept AP Bio, which transfers in as Bio 110, 2.) We will accept Bio 190H, and 3.) We will accept Bio 151 taken previously, or as a transfer course, which is equivalent to Bio 151. Any other exception requests: contact Tami (112E Goessmann) and the instructor. All exception requests will be considered on an individual basis.

**** Completion of a General Education Integrative Experience (IE) course is a senior year requirement for all students who entered the University after June 2010. ChE 401 will fulfill the IE requirement.

Last Revision: 5/11/2022 - TLP

Superscripts refer to information on reverse

