

CHEMICAL ENGINEERING, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (*Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

Chemical Engineering, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

If you are starting at a campus other than the one this plan is ending at, please refer to: <http://advising.engr.psu.edu/degree-requirements/academic-plans-by-major.aspx>

First Year

Fall	Credits	Spring	Credits
CHE 100 (or First Year Seminar) [†]	1	CHEM 112 (GN)	3
CHEM 110 (GN) ^{**†}	3	CHEM 113 (GN)	1
CHEM 111 (GN)	1	ENGL 15, 30H, or ESL 15 (GWS)	3
ECON 102 or 104 (GS) [†]	3	MATH 141 or 141E (GQ) ^{**††}	4
EDSGN 100 ^{*#}	3	PHYS 211 (PHYS 211L and PHYS 211R (GN)) ^{**†}	4
MATH 140 or 140E (GQ) ^{*†††}	4	General Education Course [†]	3
	15		18

Second Year

Fall	Credits	Spring	Credits
CHE 210 [*]	3	CHE 220 [*]	3
CHEM 210	3	CHE 230	1
MATH 251	4	CHEM 212	3
PHYS 212 (PHYS 212L & PHYS 212R (GN)) [†]	4	CHEM 213	2
General Education Course [†]	3	MATH 231	2
		General Education Course [†]	3
		General Education Course (GHW) [†]	1.5
	17		15.5

Third Year

Fall	Credits	Spring	Credits
BMB 251 or MICRB 251	3	CAS 100A or 100B (GWS) ^{††}	3
CHE 320 [*]	3	CHE 300	1
CHE 330 [*]	3	CHE 340	3

Professional Elective	3 CHE 350 [*]	3
General Education Course [†]	3 CHEM 457	2
General Education Course [†]	3 Physical Chemistry Elective	3
	General Education Course (GHW) [†]	1.5
	18	16.5

Fourth Year

Fall	Credits	Spring	Credits
CHE 410	3	CHE 470	3
CHE 430	3	CHE 480W	3
CHE 452	3	Chemical Engineering Elective	3
ENGL 202C (GWS) ^{††}	3	Engineering Elective	3
Chemical Engineering Elective	3	Professional Elective	3
Materials Elective	3		
	18		15

Total Credits 133

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

College Notes:

- Please see the Chemical Engineering Advising Handbook (<https://www.che.psu.edu/academics/undergraduate/handbook.aspx>) for lists of courses for the CHE Elective, Engineering Elective, Professional Elective, Physical Chemistry Elective, and Materials Elective.
- Health and Physical Activity Elective: Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement and 3 ROTC credits for a professional elective.

- This course offered at University Park in spring semester only.
CHE 300.