

INDUSTRIAL ENGINEERING, B.S. (ENGINEERING)

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

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 2026-27 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.

General Option: Industrial 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.

First Year

Fall	Credits	Spring	Credits
CHEM 110 (GN) ^{**†1}	3	CHEM 111	1
EDSGN 100 ^{*#1}	3	ECON 102 or 104 (GS) [†]	3
ENGL 15 or 30H (GWS) ^{††}	3	MATH 141 (GQ) ^{*†#†1}	4
MATH 140 (GQ) ^{*†#†1}	4	PHYS 211 (GN) ^{*#†1}	4
General Education Course ²	3	First-Year Seminar	1
		General Education Course ²	3
	16		16

Second Year

Fall	Credits	Spring	Credits
EMCH 210 [*]	5	CAS 100A or 100B (GWS) ^{††}	3
MATH 220	2-3	CMPS 200 or 201	3
MATH 231	2	IE 322 [*]	3
PHYS 212 (GN) [†]	4	MATH 250	3
General Education Course ²	3	MATSE 259	3
		General Education Course (GHW) ²	1.5
	16-17		16.5

Third Year

Fall	Credits	Spring	Credits
IE 302 [*]	3	ENGL 202C (GWS) ^{††}	3
IE 305 [*]	3	IE 330 [*]	3
IE 323 [*]	3	IE 405 [*]	3
IE 327 [*]	3	Engineering Elective ³	3
Engineering Elective ³	3	Manufacturing Process Elective ³	3

General Education Course (GHW) ²	1.5	Science Elective ³	3
	16.5		18
Fourth Year			
Fall	Credits Spring		Credits
IE 425	3	IE 453	3
IE 460	3	IE 470	3
Human Factors Elective ³	3	IE 480W	3
Technical Elective ³	3	Technical Elective ³	3
General Education Course ²	3	General Education Course ²	3
	15		15

Total Credits 129-130

- * 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

- ¹ Course requires a grade of C or better for entrance into this major.
- ² For more information regarding general education visit <https://gened.psu.edu>.
- ³ See department list (<https://www.ime.psu.edu/students/undergraduate/electives.aspx>) for elective course selection.

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.

Program Notes:

- Prerequisites are strictly enforced; students are responsible for ensuring they are meeting prerequisite requirements during registration.

Service Systems Engineering Option: Industrial Engineering, B.S. at University Park Campus

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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.

First Year

Fall	Credits Spring	Credits
CHEM 110 (GN) ^{*#†1}	3 CHEM 111	1
EDSGN 100 ^{*#1}	3 ECON 102 or 104 (GS) [†]	3
ENGL 15 or 30H (GWS) ^{††}	3 MATH 141 (GQ) ^{*†#†1}	4
MATH 140 (GQ) ^{*†#†1}	4 PHYS 211 (GN) ^{*#†1}	4
General Education Course ²	3 First-Year Seminar	1
	General Education Course ²	3
	16	16

Second Year

Fall	Credits Spring	Credits
EMCH 210 [*]	5 CAS 100A or 100B (GWS) ^{††}	3
MATH 220	2-3 CMPSC 200 or 201	3
MATH 231	2 IE 322 [*]	3
PHYS 212 (GN) [†]	4 MATH 250	3
General Education Course ²	3 MATSE 259	3
	General Education Course (GHW) ²	1.5
	16-17	16.5

Third Year

Fall	Credits Spring	Credits
IE 302 [*]	3 ENGL 202C (GWS) ^{††}	3
IE 304 (counts as SSE Elective)	3 IE 330 [*]	3
IE 305 [*]	3 IE 405 [*]	3
IE 323 [*]	3 SSE Elective ³	3
IE 327 [*]	3 SSE Supporting Elective ³	3
General Education Course (GHW) ²	1.5 General Education Course ²	3
	16.5	18

Fourth Year

Fall	Credits Spring	Credits
IE 425	3 IE 453	3
IE 460	3 IE 480W	3
SSE Elective ³	3 SSE Elective ³	3
SSE Supporting Elective ³	3 SSE Elective ³	3
General Education Course ²	3 SSE Supporting Elective ³	3
	15	15

Total Credits 129-130

* 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

¹ Course requires a grade of C or better for entrance into this major.

² For more information regarding general education visit <https://gened.psu.edu>.

³ See department lists below for SSE Elective and SSE Supporting Course Elective course selection.

University Requirements and General Education Notes:

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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.

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Program Notes:

- Prerequisites are strictly enforced; students are responsible for ensuring they are meeting prerequisite requirements during registration.
- SSE Electives: 15 credits required
 - IE 304
 - IE 427
 - IE 432
 - IE 435
 - IE 468
 - IE 475
 - IE 478
- SSE Supporting Electives: 9 credits required
 - CE 422
 - IE 402
 - IE 433
 - IE 434
 - IE 436
 - IE 456
 - IE 479
 - STAT 380, STAT 415, STAT 440, STAT 462, ROTC
 - Any unused SSE Elective