

# INDUSTRIAL ENGINEERING, B.S. (ENGINEERING)

**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*).

### 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.

**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
CHEM 110 (GN) <sup>*#†</sup>	3	CHEM 111	1
ECON 102 or 104 (GS) <sup>†</sup>	3	ENGL 15, 30H, or ESL 15 (GWS) <sup>††</sup>	3
EDSGN 100 <sup>*#</sup>	3	IE 100 (or First Year Seminar) <sup>†</sup>	1
MATH 140 or 140E (GQ) <sup>*†#†</sup>	4	MATH 141 or 141E (GQ) <sup>*†#†</sup>	4
General Education Course <sup>†</sup>	3	PHYS 211 (PHYS 211L and PHYS 211R (GN)) <sup>*#†</sup>	4
		General Education Course <sup>†</sup>	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
EMCH 210 <sup>*</sup>	5	CAS 100A or 100B (GWS) <sup>††</sup>	3
MATH 231	2	CMPSC 200 or 201	3
MATH 250	3	MATH 220	2-3
PHYS 212 (PHYS 212L and PHYS 212R (GN)) <sup>†</sup>	4	Engineering Elective	3
General Education Course <sup>†</sup>	3	Engineering Elective	3
		Science Elective	3
	<b>17</b>		<b>17-18</b>

#### Third Year

Fall	Credits	Spring	Credits
IE 302 <sup>*</sup>	3	ENGL 202C (GWS) <sup>††</sup>	3
IE 305 <sup>*</sup>	3	IE 323 <sup>*</sup>	3
IE 322 <sup>*</sup>	3	IE 330 <sup>*</sup>	3

IE 327 <sup>*</sup>	3	IE 405 <sup>*</sup>	3
MATSE 259	3	Manufacturing Process Elective	3
General Education Course (GHW) <sup>†</sup>	1.5	General Education Course (GHW) <sup>†</sup>	1.5

**16.5** **16.5**

#### Fourth Year

Fall	Credits	Spring	Credits
IE 408, 418, or 419	3	IE 453	3
IE 425	3	IE 480W (Writing Intensive) <sup>†</sup>	3
IE 460	3	IE-Technical Elective	3
IE 470	3	General Education Course <sup>†</sup>	3
IE-Technical Elective	3	General Education Course <sup>†</sup>	3
	<b>15</b>		<b>15</b>

#### 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

#### 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:

- **Engineering Elective Notes:** Select from department list: <http://www.ime.psu.edu/students/undergraduate/electives.aspx>
- **Health and Physical Activity Elective:** Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement.
- **Manufacturing Processing Course:** Select from department list. <http://www.ime.psu.edu/students/undergraduate/electives.aspx>
- **Science Elective:** Select from department list. <http://www.ime.psu.edu/students/undergraduate/electives.aspx>
- **Technical Elective:** Select from department list. <http://www.ime.psu.edu/students/undergraduate/electives.aspx>