

# AEROSPACE 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*).

### Aerospace 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	EDSGN 100 <sup>*#</sup>	3
ECON 102 or 104 (GS) <sup>†</sup>	3	ENGL 15, 30H, or ESL 15 (GWS) <sup>††</sup>	3
MATH 140 or 140E (GQ) <sup>*†#†</sup>	4	MATH 141 or 141E (GQ) <sup>*†#†</sup>	4
PHYS 211 (GN, PHYSICS 211L & PHYSICS 211R) <sup>*#†</sup>	4	PHYS 212 (GN, PHYSICS 212L & PHYSICS 212R) <sup>*†</sup>	4
AERSP 1 or 97 (or First Year Seminar) <sup>†</sup>	1	General Education Course <sup>†</sup>	3
	<b>15</b>		<b>17</b>

#### Second Year

Fall	Credits	Spring	Credits
CMPSC 201	3	CAS 100A or 100B (GWS) <sup>††</sup>	3
EMCH 210	5	EMCH 212 <sup>*</sup>	3
MATH 220	2	EMCH 315	2
MATH 250 <sup>*</sup>	3	EMCH 316	1
General Education Course <sup>†</sup>	3	MATH 230	4
		ME 201	3
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
AERSP 301 <sup>*</sup>	3	AERSP 304	3
AERSP 309 <sup>*</sup>	3	AERSP 305W <sup>†</sup>	3
AERSP 311 <sup>*</sup>	3	AERSP 306 <sup>*</sup>	3
AERSP 313 <sup>*</sup>	3	AERSP 312	3
ENGL 202C (GWS) <sup>††</sup>	3	PHYS 214 (GN)	2

General Education Course (GHW) <sup>†</sup>	1.5	General Education Course <sup>†</sup>	3
	<b>16.5</b>		<b>17</b>

#### Fourth Year

Fall	Credits	Spring	Credits
AERSP 401A or 402A	3	AERSP 401B or 402B	2
AERSP 410	3	AERSP 424, EE 210, or EE 212	3
AERSP 413 or 450	3	AERSP Technical Elective	3
AERSP Technical Elective	3	Limited Elective	3
General Technical Elective	3	General Education Course <sup>†</sup>	3
General Education Course (GHW) <sup>†</sup>	1.5	General Education Course <sup>†</sup>	3
	<b>16.5</b>		<b>17</b>

#### Total Credits 131

- \* 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:

- **AERSP 401A/AERSP 401B and AERSP 402A/AERSP 402B:** Students may schedule either the spacecraft design sequence (AERSP 401A and AERSP 401B) or the aircraft design sequence (AERSP 402A and AERSP 402B). The appropriate control course (AERSP 413 or AERSP 450) should be scheduled accordingly.
- **AERSP Technical Elective:** Select from department list. Students who complete the Cooperative Education Program may substitute 3 co-op credits for a Technical Elective and 3 co-op credits for a Limited Elective.
- **Health and Physical Activity Elective (GHW):** Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement and 3 ROTC credits for a Limited Elective.

- **Limited Elective:** Select from department list. Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement and 3 ROTC credits for a Limited Elective. Students who complete the Cooperative Education Program may substitute 3 co-op credits for a Technical Elective and 3 co-op credits for a Limited Elective.
- **These courses offered at University Park in fall semester only:**
  - AERSP 301
  - AERSP 309
  - AERSP 311
  - AERSP 313
  - AERSP 401A
  - AERSP 402A
  - AERSP 410
  - AERSP 413
  - AERSP 450
- **These courses offered at University Park in spring semester only:**
  - AERSP 304
  - AERSP 306
  - AERSP 312
  - AERSP 401B
  - AERSP 402B
- **These courses offered at University Park in fall and spring semesters:**
  - AERSP 305W
  - AERSP 424