

MECHANICAL ENGINEERING, B.S. (ENGINEERING)

Begin Campus: Any Penn State Campus

End Campus: Scranton, University Park

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2025-26 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.

Mechanical Engineering, B.S. at University Park Campus (Last Names Starting with A-K)

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: <https://advising.engr.psu.edu/degree-requirements/academic-plans-by-major.aspx>

First Year

Fall	Credits	Spring	Credits
First-Year Seminar ¹	1	Science Elective ²	3
ENGL 15 ^{††}	3	ECON 102 or 104 (GS)	3
EDSGN 100 ^{*#}	3	MATH 141 ^{*†#†}	4
General Education Course [†]	3	General Education Course [†]	3
MATH 140 ^{*†#†}	4	PHYS 211 ^{*#†}	4
CHEM 110 ^{*#†}	3		
	17		17

Second Year

Fall	Credits	Spring	Credits
CMPSC 200	3	EMCH 212 [*]	3
CAS 100A or 100B ^{††}	3	EMCH 213 [*]	3
EMCH 211 [*]	3	ME 300 [*]	3
MATH 251 [*]	4	MATH 231	2
PHYS 212 ^{*†}	4	MATH 220 [*]	2-3
		General Education Course [†]	3
	17		16-17

Third Year

Fall	Credits	Spring	Credits
IE 312	3	ME 454 [*]	3
MATSE 259	3	ENGL 202C ^{††}	3
ME 330 [*]	3	ME 340 [*]	3
ME 370 [*]	3	ME 360 [*]	3
ME 348 [*]	3	ME 320 [*]	3
ME 390	0.5	ME 490	0.5

General Education Course (GHW) 1.5

15.5 17

Fourth Year

Fall	Credits	Spring	Credits
Engineering Technical Elective (ETE)	3	ME 440W	3
ME 410 [*]	3	General Education Course [†]	3
ME 450 [*]	3	General Education Course [†]	3
Mechanical Engineering Technical Elective (METE)	3	General Technical Elective (GTE)	3
ME 435 (Mechanical Engineering Lab) ^{*3}	3	Engineering Technical Elective (ETE)	3
General Education Course (GHW)	1.5		
	16.5		15

Total Credits 131-132

- * 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 Students who did not take a 1-credit College of Engineering First-Year Seminar should verify completion of this requirement with ME adviser

² Science Elective Choices: CHEM 112, BIOL 141, BIOL 161, or CHEM 111 and PHYS 214 (3 credits total)

³ Recommend ME 410 before or concurrent

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:

- Successful completion of MATH and EMCH courses before the 5th semester is important for future course sequencing.
- EMCH 210 or EMCH 210H is not a direct substitute for EMCH 211 and EMCH 213 requirements and should not be taken for ME_BS

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- Information on Technical Elective requirements can be found at:
<https://www.me.psu.edu/students/undergraduate/curriculum-electives.aspx>
- General Education in ME_BS Curriculum:
 - Single Domain: 3 credits GS (ECON 102 or ECON 104), 3 credits GN (CHEM 110), 3 Credits GA, 3 Credits GH, 3 Credits GHW
 - Inter-Domain: 6 credits
 - Exploratory: 6 credits GN (PHYS 211 and PHYS 212), 3 credits any GA/GH/GS/GN/Inter-Domain or 12th credit level language
- Students must take 3 credits of United State Cultures (US) and 3 credits of International Cultures (IL) (these can be captured in the General Education selections)

Mechanical Engineering, B.S. at University Park Campus (Last Names Starting with L-Z)

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.

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First Year

Fall	Credits Spring	Credits
First-Year Seminar ¹	1 Science Elective ²	3
ENGL 15 ^{††}	3 ECON 102 or 104 (GS)	3
EDSGN 100 ^{*#}	3 MATH 141 ^{*†#†}	4
General Education Course [†]	3 General Education Course [†]	3
MATH 140 ^{*†#†}	4 PHYS 211 ^{*#†}	4
CHEM 110 ^{*#†}	3	
	17	17

Second Year

Fall	Credits Spring	Credits
CMPSC 200	3 EMCH 212 [*]	3
CAS 100A or 100B ^{††}	3 EMCH 213 [*]	3
EMCH 211 [*]	3 ME 300 [*]	3
MATH 251 [*]	4 MATH 231	2
PHYS 212 ^{*†}	4 MATH 220 [*]	2-3
	General Education Course [†]	3
	17	16-17

Third Year

Fall	Credits Spring	Credits
ENGL 202C ^{††}	3 IE 312	3
General Education Course [†]	3 MATSE 259	3
ME 340 [*]	3 ME 330 [*]	3
ME 360 [*]	3 ME 370 [*]	3
ME 320 [*]	3 ME 348 [*]	3
General Education Course (GHW)	1.5 ME 390	0.5
	16.5	15.5

Fourth Year

Fall	Credits Spring	Credits
ME 440W	3 Engineering Technical Elective (ETE)	3
General Education Course [†]	3 ME 410 [*]	3
ME 454 [*]	3 ME 450 [*]	3
General Technical Elective (GTE)	3 Mechanical Engineering Technical Elective (METE)	3
Engineering Technical Elective (ETE)	3 ME 435 (Mechanical Engineering Lab) ^{*3}	3

ME 490	0.5 General Education Course (GHW)	1.5
	15.5	16.5

Total Credits 131-132

- * Course requires a grade of C or better for the major
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- # Course is an Entrance to Major requirement
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- ¹ Students who did not take a 1-credit College of Engineering First-Year Seminar should verify completion of this requirement with ME adviser
- ² Science Elective Choices: CHEM 112, BIOL 141, BIOL 161, or CHEM 111 and PHYS 214 (3 credits total)
- ³ Recommend ME 410 before or concurrent

University Requirements and General Education Notes:

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College Notes:

- Successful completion of MATH and EMCH courses before the 5th semester is important for future course sequencing.
- EMCH 210 or EMCH 210H is not a direct substitute for EMCH 211 and EMCH 213 requirements and should not be taken for ME_BS
- Information on Technical Elective requirements can be found at: <https://www.me.psu.edu/students/undergraduate/curriculum-electives.aspx>
- General Education in ME_BS Curriculum:
 - Single Domain: 3 credits GS (ECON 102 or ECON 104), 3 credits GN (CHEM 110), 3 Credits GA, 3 Credits GH, 3 Credits GHW
 - Inter-Domain: 6 credits
 - Exploratory: 6 credits GN (PHYS 211 and PHYS 212), 3 credits any GA/GH/GS/GN/Inter-Domain or 12th credit level language
- Students must take 3 credits of United State Cultures (US) and 3 credits of International Cultures (IL) (these can be captured in the General Education selections)

Mechanical Engineering, B.S. at Scranton Campus

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First Year

Fall	Credits Spring	Credits
First-Year Seminar	1 ECON 102 or 104 (GS)	3
CHEM 110 ^{*#†}	3 General Education Course (GA, GH, or GS) [†]	3
ENGL 15 ^{‡†}	3 MATH 141 ^{*#††}	4
EDSGN 100 ^{*#}	3 PHYS 211 ^{*#†}	4
General Education Course (GA, GH, or GS) [†]	3 Science Elective (see below)	3
MATH 140 ^{*#††}	4	
	17	17

Second Year

Fall	Credits Spring	Credits
CAS 100A or 100B ^{††}	3 EMCH 212 [*]	3
CMPSC 200	3 EMCH 213 [*]	3
EMCH 211 [*]	3 General Education Course (GA, GH, GS) [†]	3
MATH 251 [*]	4 MATH 220 [*]	2
PHYS 212 ^{††}	4 MATH 231	2
	ME 300 [*]	3
	17	16

Third Year

Fall	Credits Spring	Credits
ENGL 202C ^{††}	3 IE 312	3
ME 320 [*]	3 MATSE 259	3
ME 340 [*]	3 ME 330 [*]	3
ME 360 [*]	3 ME 348 [*]	3
ME 390	0.5 ME 370 [*]	3
General Education Course (GA, GH, or GS) [†]	3 ME 490	0.5
General Education Course (GHW)	1.5	
	17	15.5

Fourth Year

Fall	Credits Spring	Credits
ME 440W [*]	3 ME 410 [*]	3
ME 454 [*]	3 ME 435 (Mechanical Engineering Lab) [*]	3
Engineering Technical Elective (ETE)	3 ME 450 [*]	3
General Technical Elective (GTE)	3 Engineering Technical Elective (ETE)	3
General Education Course (GA, GH, or GS) [†]	3 Mechanical Engineering Technical Elective (METE)	3

General Education Course (GHW)	1.5
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15

16.5

Total Credits 131

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College Notes:

- Science elective choices: CHEM 112, BIOL 141, BIOL 161, or CHEM 111 and PHYS 214 (3 credits total)
- Completion of EMCH and MATH courses before the 5th semester is important for future course sequencing
- Details on the METE, ETE and GTE can be found at <https://www.me.psu.edu/students/undergraduate/curriculum-electives.aspx>