MECHANICAL ENGINEERING, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus

End Campus: Harrisburg

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*).

Mechanical Engineering, B.S. at Harrisburg 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 3 PHYS 211** ENGL 15, 15S, 30T, or ESL 4 15[‡] MATH 140** 4 MATH 141** 4 EDSGN 100S 3 CAS 100A or 100S[‡] 3 CHEM 110** 3 MATH 220^{*} 2 **CHEM 111** 1 ECON 102 or 104[†] 3 General Education Course 3 17 16 Second Year Fall **Credits Spring** Credits EMCH 211 3 EMCH 212* 3 4 EMCH 213* **PHYS 212** 3 **MATH 230** 4 ME 300 3 MATH 251* 4 EE 211, 210, or 212 3 **General Education Course** 1.5 CMPSC 200 3 (GHW) **General Education Course** 3 16.5 18 Third Year Fall **Credits Spring** Credits ENGL 202C[‡] 3 PHYS 214 2 MATSE 259 3 ME 345W 4 ME 320^{*} 3 ME 357 3 3 ME 367* 3 ME 349[°] ME 365 3 1 General Education Course ME 380^{*} 3 16 15

Fourth Year		
Fall	Credits Spring	Credits
ME 410 [*]	3 ME 449 [*]	3
ME 448 [*]	3 4XX Engineering Elective [*]	3
ME 468 [*]	3 4XX Engineering Elective [*]	3
ME 308 or 465 [*]	1 General Education Course	3
4XX Engineering Elective*	3 General Education Course	3
4XX Engineering Elective [*]	3 General Education Course (GHW)	1.5
	16	16.5

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

 ¹ CHEM 111 - Experimental Chemistry I Students may substitute either CHEM 112 (3) or BIOL 141 (3) for the combination of CHEM 111 (1) and PHYS 214 (2).
² DHVS 214 - Constal Division: Wave Matter and Quantum Division

² PHYS 214 - General Physics: Wave Motion and Quantum Physics
³ 4XX Engineering Elective

See list below for eligible electives

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.

Program Notes

4XX Engineering Electives include:

- ME 402 Power Plants
- ME 408 Energy Systems
- ME 431 Internal Combustion Engines
- ME 455 Automatic Control Systems
- ME 460 Advance Machine Design Problems
- ME 461 Finite element in Engineering
- ENVE 430 Sustainable Engineering
- · and others offered by the program