

ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY, B.S. (ALTOONA)

Begin Campus: Any Penn State Campus

End Campus: Altoona

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 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.

Electro-Mechanical Engineering Technology, B.S. at Altoona 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 |
|---------------------------|---|-----------|
| EDSGN 100 | 3 MATH 82 (GQ) [‡] | 3 |
| MATH 81 (GQ) [‡] | 3 MET 111 [*] | 3 |
| General Education Course | 3 CMPET 117 [*] | 3 |
| EET 105 | 3 CMPET 120 [*] | 1 |
| IET 101 | 3 ENGL 15, 30H, or ESL 15 (GWS) ^{††} | 3 |
| EMET 100 | 1 General Education Course | 3 |
| PSU 3 | 1 | |
| | 17 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|---------------------------|---------------------------------|--------------|
| MATH 83 (GQ) [*] | 4 MATH 210 [*] | 3 |
| EGT 114 | 2 General Education Course (GN) | 3-4 |
| EET 114 [*] | 4 EET 212W [*] | 4 |
| EET 118 [*] | 1 EMET 215 | 3 |
| EMET 222 [*] | 3 EET 275 | 3 |
| General Education Course | 3 EMET 225 | 2 |
| | 17 | 18-19 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|---------|
| EMET 230 [*] | 3 EMET 330 [*] | 3 |
| CMPET 211 | 3 EMET 325 | 3 |
| MATH 211 [*] | 3 EMET 326 | 3 |
| ENGL 202C (GWS) ^{††} | 3 CAS 100A (GWS) ^{††} | 3 |
| General Education Course | 3 General Education Course (GN) | 3-4 |

| General Education Course (GN) | 3-4 General Education Course (GHW) | Credits |
|-------------------------------|------------------------------------|--------------|
| | 18-19 | 18-19 |
| Fourth Year | | |
| Fall | Credits Spring | Credits |
| EMET 405 | 3 EMET 350 | 3 |
| EMET 410 | 4 EMET 440 | 3 |
| Technical Elective | 3 General Education Course | 3 |
| IET 333 | 2 General Education Course | 3 |
| General Education Course | 3 Technical Elective | 3 |
| EMET 403 | 1 | |
| | 16 | 15 |

Total Credits 135-138

* 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.

College Notes:

Sequential Nature of the Program:

Courses offered during each semester of the EMET program generally build upon material taught in previous semesters. Many courses have prerequisites listed in the Undergraduate Degree Programs Bulletin. Therefore, if a student fails to take a course during the targeted semester, he/she may be unable to schedule courses in subsequent semesters as well. The end result may be a degree program that extends beyond the traditional four years.

Note 1: Math Sequence

High school graduates who test into technical mathematics: Math 81, 82, 83, 210 and 211. Additionally, Math 40 or Math 22 and Math 26 may be used to substitute for Math 81 and 82.

High school graduates who test into calculus: Math 83, 210 and 211 or Math 140, 141, and 250. Students who complete either of these sequences to fulfill the math requirements will need to complete additional technical elective credits. Please see an adviser for more information.

Note 2: Science Courses

Students are required to complete nine credits of science. **At least two** courses from the following list must be completed:

- PHYS 150 GN(3) or PHYS 211 GN(4) or PHYS 250 GN(4);
- PHYS 151 GN(3) or PHYS 212 GN(4) or PHYS 251 GN(4);
- CHEM 110 GN(3) and CHEM 111 GN(1);

Students may complete **no more than one selection** from the following. (If the student completes three selections from the first list, no additional courses are required):

- BIOL 011 GN(3) and BIOL 012 GN(1);
- BIOL 110 GN(4);
- BIOL 141 GN(3);
- CHEM 112 GN(3) and CHEM 113 GN(1);
- EGEE 101 GN(3);
- EGEE 102 GN(3);

Due to limited faculty resources, several program courses are only offered during one semester of the year. In addition, EMET courses are not traditionally offered during the summer months.

Approved technical elective courses are:

- CMPSC 201C (3) or CMPSC 121 (3);
- EMET 401 (1), EMET 402 (2), EMET 403 (1), EMET 394 (1-3), EMET 430 (3),
- ENTR 300 (3), ENTR 320 (3),
- MATH 220 (2), MATH 231 (2), STAT 200 (4)
- MGMT 301 (3), MKTG 301 (3)

Other courses may be accepted toward technical elective credits. Please check with your adviser for more information.