

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

Begin Campus: Any Penn State Campus

End Campus: Fayette, New Kensington, York

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*).

Electro-Mechanical Engineering Technology, B.S. at Fayette 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 |
|------------|----------------|-----------|
| EET 105 | 3 CMPET 117* | 3 |
| IET 101 | 3 CMPET 120* | 1 |
| EDSGN 100 | 3 MET 111* | 3 |
| EMET 100 | 1 EET 114* | 4 |
| MATH 26**† | 3 EET 118* | 1 |
| ENGL 15*‡ | 3 EGT 114 | 2 |
| PSU 8 | 1 MATH 140* | 4 |
| | 17 | 18 |

Second Year

| Fall | Credits Spring | Credits |
|--------------------------------|-----------------------------------|--------------|
| EMET 222* | 3 CMPSC 121 | 3 |
| CMPET 211 | 3 EET 275 | 3 |
| CAS 100A or 100B**† | 3 EET 212W* | 4 |
| MATH 210* | 3 MATH 211* | 3 |
| General Education Course (GN) | 3-4 General Education Course (GN) | 3-4 |
| General Education Course (GHW) | 1.5 | |
| | 16.5-17.5 | 16-17 |

Third Year

| Fall | Credits Spring | Credits |
|----------|----------------|---------|
| EMET 215 | 3 EMET 230* | 3 |
| EMET 225 | 2 EMET 326 | 3 |
| EMET 325 | 3 EMET 350 | 3 |

| | | |
|-------------------------------|----------------------|--------------|
| General Education Course (GN) | 3-4 ENGL 202C† | 3 |
| General Education Course | 3 IET 333 | 2 |
| General Education Course | 3 Technical Elective | 3-4 |
| | 17-18 | 17-18 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------------|----------------------------|-----------|
| EMET 330* | 3 EMET 405 | 3 |
| EMET 403 | 1 EMET 440 | 3 |
| EMET 410 | 4 Technical Elective | 3 |
| STS 200, 233, or 245† | 3 General Education Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| General Education Course (GHW) | 1.5 | |
| | 15.5 | 15 |

Total Credits 132-136

* 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.

Program Notes:

- Approved Supporting Science courses (3-4 credits required): BIOL 110, CHEM 110 & 111, CHEM 112 & 113, EGEE 101, EGEE 102, GEOG 30N, PHYS 150, PHYS 151, PHYS 211, PHYS 212, PHYS 250, PHYS 251.
- Approved General Technical Elective courses (6 credits required): EGT 201, EMET 394, EMET 401, EMET 402, EMET 430, EMET 432, EMET 495, EMET 496, EMET 497, ENGR 310, ENTR 300, ENTR 320, IST 402, IST 431, IST 432, MATH 220, MATH 230, MATH 231, ME 300, ENGR 408, ENGR 405, ENGR 425, MGMT 301, MKTG 301, STAT 200. Additional courses may be petitioned in consultation with an adviser.
- Students who begin the math sequence beyond MATH 26 are required to replace the missing credits with General Technical Elective Courses.

Campus Advising Notes:

- Students can substitute Math 141 and Math 250 for Math 210 and Math 211.

- Approved Supporting Science course offered at Fayette include:
CHEM 110 & 111, CHEM 112 & 113, EGEE 101, PHYS 211, PHYS 212,
PHYS 250, PHYS 251.
- Approved General Technical Elective courses offered at Fayette
include: EMET 495, EMET 497, MATH 220, MATH 230, MATH 231,
STAT 200, ME 300, MGMT 301, and MKTG 301.

Electro-Mechanical Engineering Technology, B.S. at New Kensington 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 CMPET 117* | 3 |
| IET 101 | 3 CMPET 120* | 1 |
| EET 105 | 3 MET 111* | 3 |
| MATH 26* | 3 MATH 140* | 4 |
| EMET 100 | 1 CAS 100 (GWS)**† | 3 |
| ENGL 15 (GWS)**† | 3 General Education Course | 3 |
| | 16 | 17 |

Second Year

| Fall | Credits Spring | Credits |
|-----------------------------------|----------------------|-----------|
| EMET 222* | 3 CMPSC 121 | 3 |
| EGT 114 | 2 EET 114* | 4 |
| EET 275 | 3 EET 118* | 1 |
| MATH 141* | 4 EMET 225 | 2 |
| General Education Course (GN) | 3 ENGL 202C (GWS)**† | 3 |
| General Health and Wellness (GHW) | 1.5 MATH 250 | 3 |
| | 16.5 | 16 |

Third Year

| Fall | Credits Spring | Credits |
|-----------------------------------|----------------------------|-----------|
| EET 212W* | 4 EMET 215 | 3 |
| EMET 230* | 3 EMET 325 | 3 |
| EMET 326 | 3 EMET 330* | 3 |
| CMPET 211 | 3 EMET 350 | 3 |
| General Health and Wellness (GHW) | 1.5 STS 200, 233Z, or 245Z | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 17.5 | 18 |

Fourth Year

| Fall | Credits Spring | Credits |
|-------------------------------|-------------------------------|-----------|
| EMET 405 | 3 EMET 440 | 3 |
| EMET 410 | 4 IET 333 | 2 |
| EMET 403 | 1 EMET Technical Elective | 3 |
| General Education Course | 3 EMET Technical Elective | 3 |
| General Education Course (GN) | 3 General Education Course | 3 |
| | General Education Course (GN) | 3 |
| | 14 | 17 |

Total Credits 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

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:

- Approved Supporting Science courses (3-4 credits required): BIOL 11 & 12, BIOL 110, BIOL 141, CHEM 110 & 111, CHEM 112 & 113, EGEE 101, EGEE 102, GEOG 30N, PHYS 150, PYHS 151, PHYS 211, PHYS 212, PHYS 250, PHYS 251.
- Approved General Technical Elective courses (6 credits required): EGT 201, EMET 394, EMET 401, EMET 402, EMET 430, EMET 432, EMET 495, EMET 496, EMET 497, ENGR 310, ENTR 300, ENTR 320, IST 402, IST 431, IST 432, MATH 220, MATH 230, MATH 231, ME 300, ENGR 408, ENGR 405, ENGR 425, MGMT 301, MKTG 301, STAT 200. Additional courses may be petitioned in consultation with an adviser.
- Students who begin the math sequence beyond MATH 26 are required to replace the missing credits with General Technical Elective Courses.

Campus Advising Notes:

- The required math courses offered at New Kensington include: Math 26, Math 140, Math 141, and Math 250.
- Approved Supporting Science course offered at New Kensington include: BIOL 141, CHEM 110 & 111, CHEM 112 & 113, EGEE 101, GEOG 30N, PHYS 150, PHYS 151, PHYS 211, PHYS 212, PHYS 250, PHYS 251.
- Approved General Technical Elective courses offered at New Kensington include: EMET 430, EMET 495, EMET 497, MATH 220, MATH 230, MATH 231, STAT 200, ME 300, MGMT 301, MKTG 301, and IST 402.

Electro-Mechanical Engineering Technology, B.S. at York 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 CMPET 117* | 3 |
| IET 101 | 3 CMPET 120* | 1 |
| EET 105 | 3 MET 111* | 3 |
| MATH 26* | 3 General Education Course | 3 |
| ENGL 15 or 30H | 3 CAS 100, CAS 100A, or CAS 100B | 3 |
| EMET 100 | 1 PHYS 150 (GN) | 3 |
| | 16 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|---------------|--------------------------|-----------|
| EMET 222* | 3 CMPET 211 | 3 |
| EMET 225* | 2 CMPSC 121, 131, or 201 | 3 |
| EET 114* | 4 EMET 215* | 3 |
| EET 118* | 1 MATH 141* | 4 |
| MATH 140* | 4 ENGL 202C | 3 |
| PHYS 151 (GN) | 3 | |
| | 17 | 16 |

Third Year

| Fall | Credits Spring | Credits |
|--------------------------|----------------------------------|-------------|
| EET 212W* | 4 EMET 325 | 3 |
| EMET 230* | 3 EMET 326 | 3 |
| EET 275 | 3 EMET 330* | 3 |
| EGT 114 | 2 EMET 350 | 3 |
| MATH 250 | 3 STS 233Z (GH) [†] | 3 |
| General Education Course | 3 General Education Course (GHW) | 1.5 |
| | 18 | 16.5 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------|----------------------------------|-------------|
| EMET 403 | 1 EMET 405 | 3 |
| CHEM 110 (GN) | 3 EMET 440 | 3 |
| CHEM 111 (GN) | 1 Technical Elective | 3 |
| EMET 410 | 4 General Education Course | 6 |
| IET 333 | 2 General Education Course (GHW) | 1.5 |
| Technical Elective | 3 | |
| General Education Course | 3 | |
| | 17 | 16.5 |

Total Credits 133

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.

Program Notes:

- Approved Supporting Science courses (3-4 credits required): BIOL 11 & 12, BIOL 110, BIOL 141, CHEM 110 & 111, CHEM 112 & 113, EGEE 101, EGEE 102, GEOG 30N, PHYS 150, PHYS 151, PHYS 211, PHYS 212, PHYS 250, PHYS 251.
- Approved General Technical Elective courses (6 credits required): EGT 201, EMET 394, EMET 401, EMET 402, EMET 430, EMET 432, EMET 495, EMET 496, EMET 497, ENGR 310, ENTR 300, ENTR 320, IST 402, IST 431, IST 432, MATH 220, MATH 230, MATH 231, ME 300, ENGR 408, ENGR 405, ENGR 425, MGMT 301, MKTG 301, STAT 200. Additional courses may be petitioned in consultation with an adviser.
- Students who begin the math sequence beyond MATH 26 are required to replace the missing credits with General Technical Elective Courses.

Campus Advising Notes:

- The required math courses offered at York include: Math 26, Math 140, Math 141, and Math 250.
- Approved Supporting Science course offered at York include: BIOL 141, CHEM 110 & 111, CHEM 112 & 113, PHYS 150, PHYS 151, PHYS 211, PHYS 212, PHYS 250, PHYS 251.
- Approved Supporting Science course offered the Web include: EGEE 101, GEOG 30N
- Approved General Technical Elective courses offered at York include: EMET 430, EMET 495, EMET 497, MATH 220, MATH 230, MATH 231, STAT 200, ME 300, MGMT 301, MKTG 301, IST 402 and IST 432.

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education