

Engineering Physics 3+2

Bachelor of Science (BS)

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. We recommend taking a minimum of 15 credits each fall and spring semester.

Sample 4-Year Plan

First Year			
Fall Courses	Credits	Spring Courses	Credits
ENGT101 Intro to Engineering	3	MATH170 Calculus 2	4
MATH160 Calculus 1 (GenEd: Q)	4	PHYS212 General Physics 2	4
General Education course (U, First Year Seminar)	3	COMM101 Public Speaking (GenEd: O)	3
WRIT103 Foundations in Composition (GenEd: W)	3	ENGT180 CAD & Engineering Graphics	3
PHYS211 General Physics 1 (GenEd: N)	4	General Education Course (H)	3
Semester Total	17	Semester Total	17
Second Year			
Fall Courses	Credits	Spring Courses	Credits
ENGT141 Circuit Analysis	4	PHYS310 Modern Physics	3
PHYS301 Statics	3	PHYS302 Dynamics	3
MATH270 Calculus 3	4	CMSC115 Python Programming (GenEd: T)	3
ENG270 Technical Writing	3	ECC122 Principles of Microeconomics	3
General Education Course (D)	3	MATH370 Differential Equations	3
		General Education (A or C)	3
Semester Total	17	Semester Total	18
Third Year			
Fall Courses	Credits	Spring Courses	Credits
PHYS316 Digital Electronics	3	PHYS442 Math Methods	3
PHYS422 Thermodynamics	3	Major Elective (PHYS, CHEM, GEO, or MATH)*	3
CHEM121 General Chemistry 1	4	General Education Course (L)	3
General Education Course (D or G or F)	3	General Education Course (E)	3
MATH250 Discrete Math	3	General Education Course (G)	3
Semester Total	16	Semester Total	15
Fourth Year			
Fall Courses	Credits	Spring Courses	Credits
Students begin their time at Penn State University		Students continue taking courses at Penn State University	
		Students will transfer 20 credits taken at Penn State back to Commonwealth University to complete a B.S. Engineering Physics degree	
Students may wish to lighten their load by taking a general education course(s) over winter or summer		GENTRANS XXX	20
Semester Total	0	Semester Total	20

Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

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Curriculum Checklist

Required Courses (64 credits)

- ___ ENGT 101 Introduction to Engineering Technology (3)
- ___ ENGT 180 Computer Aided Design & Engineering Graphics (3)
- ___ ENGT 141 Circuit Analysis (4)
- ___ PHYS 212 General Physics 2 (4)
- ___ PHYS310 Modern Physics (3)
- ___ PHYS301 Statics (3)
- ___ PHYS302 Dynamics (3)
- ___ PHYS 316 Digital Electronics (3)
- ___ PHYS422 Thermodynamics (3)
- ___ PHYS442 Math Methods (3)
- ___ MATH 170 Calculus 2 (4)
- ___ MATH 250 Discrete Math (3)
- ___ MATH270 Calculus 3 (4)
- ___ MATH370 Differential Equations (3)
- ___ ENGL270 Technical Writing (3)
- ___ MATH 160 Calculus 1 (Q) (4)
- ___ PHYS 211 General Physics 1 (N) (4)
- ___ CHEM 121 Chemistry for the Sciences 1 (4)
- ___ CMSC 115 Python Programming (3)

Elective Courses (3 credits)

- ___ Elective as suits the curriculum of Penn State (3)

Transfer Courses (20 credits)

- ___ Engineering courses from a Penn State Campus (vary depending on program)

General Education Requirements (45 credits)

Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below

- Foundations (15 credits)
 - MATH 160 Calculus 1 (Q) (4)
- Interconnections (9 credits)
- Citizenship & Responsibility (6 credits from at least two goals)
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- Natural World & Technologies (9 credits)
 - PHYS 211 General Physics 1 (N) (4)
- Creativity & Expression (6 credits)

Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements.

A minimum GPA of 2.0 in the major and overall are required.

Campus Locations

- | | |
|-------------------|--|
| Bloomsburg | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| Lock Haven | <input type="checkbox"/> Online; * <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| Mansfield | <input type="checkbox"/> Online; * <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| Clearfield | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended |

Revised April, 2023

2+2: First two years of the curriculum are offered at the respective home campus (Lock Haven or Mansfield) and the final two years of the curriculum are offered at the Bloomsburg campus. Note that the Electronics Engineering Technology program is a 4.5 years program as students complete co-op education at off-campus industrial locations in their final six months.*

Revised April, 2023