PHYSICS, B.S. (SCIENCE)

Begin Campus: Any Penn State Campus

End Campus: 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.

General Option: Physics, B.S. at University Park 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
PHYS 211 ^{*#}	4 PHYS 212 ^{*#}	4
MATH 140 ^{*‡#†}	4 MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}	3 CHEM 112 [†]	3
CHEM 111 [†]	1 ENGL 15, 30H, or ESL 15 \ddagger	3
PSU 16	1	
General Education Course	3	
	16	14
Second Year		
Fall	Credits Spring	Credits
PHYS 213 & PHYS 214 [*]	4 PHYS 237 [*]	3
MATH 230 [*]	4 MATH 251 [*]	4
MATH 220	2 General Education Course	3
General Education Course	3 CMPSC 101, 121, 131, 200, 201, or 204	3
General Education Course (GHW)	1.5 CAS 100A, 100B, or 100C [‡]	3
	14.5	16
Third Year		
Fall	Credits Spring	Credits
PHYS 400 [*]	4 PHYS 410 [*]	4
PHYS 419 or 402 [*]	3-4 PHYS 419 or 458 [*]	3-4
MATH 400 level selection (consult with an academic adviser for options) ¹	3 MATH 400 level selection (consult with an academic adviser for options) ¹	3
General Education Course	3 General Education Course	3
PHYS 444 [*]	2 General Education Course	3
	15-16	16-17

Fourth Year		
Fall	Credits Spring	Credits
PHYS 400 level selection (consult with an academic adviser for options)	3 PHYS 400 level selection (consult with an academic adviser for options)	3
PHYS 420 or 457W ²	3-4 PHYS 420 or 457W ²	3-4
General Education Course	3 Supporting Course (consult with an academic adviser fo options)	3 r
ENGL 202C [‡]	3 Supporting Course (consult with an academic adviser fo options)	3 r
Elective ²	3 General Education Course (GHW)	1.5
	15-16 1:	3.5-14.5
T-+- 0 +- 100 104		

Total Credits 120-124

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.

¹ MATH 4xx can be taken from the following list: E SC 404 OR E SC 406 OR any Math 4XX course except PHYS/MATH 419 and PHYS/MATH 479.

² PHYS 457W requires a grade of C or better.

Medical Option: Physics, B.S. at University Park Campus

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First Year

Filst fedi			
Fall	Credits		Credits
PHYS 211 ^{*#}		PHYS 212 ^{*#}	4
MATH 140 ^{*‡#†}		MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}	3	CHEM 112 [†]	3
CHEM 111 [†]	1	CHEM 113 [†]	1
PSU 16	1	ENGL 15, 30H, or ESL 15 [‡]	3
General Education Course	3		
	16		15
Second Year			
Fall	Credits	Spring	Credits
PHYS 213	4	PHYS 237 [*]	3
& PHYS 214 [*]			
MATH 230 [*]	4	MATH 251 [*]	4
BIOL 110 or 141 [†]	3-4	BIOL 240W or BME 201 $^{+}$	3-4
General Education Course	3	General Education Course	3
		CAS 100A, 100B, or 100C [‡]	3
	14-15		16-17
Third Year			
Fall	Credits	Spring	Credits
PHYS 400 [*]	4	PHYS 419 [*]	3
MATH 400 level selection	3	CMPSC 101, 121, 131, 200,	3
(consult with an academic		201, or 204	
adviser for options)1			
MATH 220		CHEM 212 (or BME Elective)	3
CHEM 210 (or BME Elective)	3	General Education Requirement	3
PHYS 444	2	General Education Course	3
	14		15
Fourth Year			
Fall	Credits	Spring	Credits
PHYS 410 [*]	4	PHYS 420 [*]	3
CHEM 213 (or BME Elective)	2	PHYS 457W [*]	3
ENGL 202C [‡]	3	Supporting Course (consult	3
		with an academic adviser for options)	
General Education Course	3	Supporting Course (consult	3
		with an academic adviser for options)	
General Education Course	1.5	Supporting Course (consult	3
(GHW)		with an academic adviser for	
		options)	

13.5	16.5
(GHW	
Gener	al Education Course 1.5

Total Credits 120-122

* 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

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Electronics Option: Physics, B.S. at University Park Campus

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First Year

Fall	Credits	Spring	Credits
PHYS 211 ^{*#}		PHYS 212 ^{*#}	4
MATH 140 ^{*‡#†}		MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}		CHEM 112 [†]	3
CHEM 111 [†]		ENGL 15, 30H, or ESL 15 [‡]	3
PSU 16	1		
General Education Course	3		
	16		14
Second Year			
Fall	Credits	Spring	Credits
PHYS 213		PHYS 237 [*]	3
& PHYS 214 [*]			
MATH 230 [*]	4	MATH 251 [*]	4
MATH 220	2	CMPEN 270 (or Electrical	4
		Engineering 300 level selection)	
EE 210	4	CMPSC 101, 121, 131, 200,	3
		201, or 204	
		General Education Course	3
	14		17
Third Year			
Fall	Credits		Credits
PHYS 400 [*]	-	PHYS 419 [*]	3
CMPEN 270 (or Electrical	4	Electral Engineering 300 or	3
Engineering 300 level selection)		400 level selection (consult with an academic adviser for	r
Selection		options)	
MATH 400 level selection	3	General Education Course	3
(consult with an academic adviser for options)1 ¹			
CAS 100A, 100B, or 100C [‡]	3	General Education Course	3
PHYS 444 [*]	2	General Education Course	3
	16		15
Fourth Year			
Fall	Credits	Spring	Credits
PHYS 410 [*]	4	PHYS 420 [*]	3
Electral Engineering 300 or	3	PHYS 457W [*]	3
400 level selection (consult			
with an academic adviser for options)	r		
ENGL 202C [‡]	0	General Education Course	3
General Education Course		Supporting Course (consult	3
	3	with an academic adviser for	
		options)	

	GHA Elective 14.5	1.5 16.5
General Education Selection (GHW)	1.5 Supporting Course (consult with an academic adviser for options)	3

Total Credits 123

* 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:

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Computational Option: Physics, B.S. at University Park Campus

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First Year

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Fall	Credits		Credits
PHYS 211 ^{*#}		PHYS 212 ^{*#}	4
MATH 140 ^{*‡#†}		MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}		CHEM 112 [†]	3
CHEM 111 [†]	1	ENGL 15, 30H, or ESL 15 \ddagger	3
PSU 16	1		
General Education Course	3		
	16		14
Second Year			
Fall	Credits	Spring	Credits
PHYS 213	4	PHYS 237 [*]	3
& PHYS 214			
MATH 230 [*]	4	MATH 251 [*]	4
CMPSC 131	3	CMPSC 132	3
General Education Course	3	MATH 220	2
General Education Course	1.5	General Education Course	3
(GHW)			
	15.5		15
Third Year			
Fall	Credits		Credits
PHYS 400 [*]	4	PHYS 410 [*]	4
PHYS 419 (or MATH 4xx) ^{*1}	3	PHYS 419 (or MATH 400 level selection) ^{*1}	3
MATH 455	3	MATH 456	3
CAS 100A, 100B, or 100C [‡]	3	General Education Course (GHW)	1.5
PHYS 444 [*]	2	General Education Course	3
		Supporting Course (consult with an academic adviser for options)	. 3
	15	·	17.5
Fourth Year			
Fall	Credits	Spring	Credits
PHYS 420 [*]	3	PHYS 457W	3
MATH 400 level or STAT 400 level or CMPSC 300/400 level selection (consult with an academic adviser for options)	3	MATH 400 level or STAT 400 level or CMPSC 300/400 level selection (consult with an academic adviser for options)	3
General Education Course	3	General Education Course	3
General Education Course	3	Supporting Course (consult with an academic adviser for options)	. 3

	15	15
	options)	
	with an academic adviser for	
ENGL 202C [‡]	3 Supporting Course (consult	3

Total Credits 123

* 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

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Materials-Nanotechnology Option - Nanotechnology Track: Physics, B.S. at University Park Campus

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First Year

	Oradita	Carring	Credite
Fall PHYS 211 ^{*#}	Credits	PHYS 212 ^{*#}	Credits 4
MATH 140 ^{*‡#†}		MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}		CHEM 112 [†]	4
CHEM 111 [†]		ENGL 15, 30H, or ESL 15 [‡]	3
		ENGL 15, 30H, 01 ESL 15	3
PSU 16 General Education Course	1		
General Education Course	3		14
Concerned Vision	16		14
Second Year	o	a :	o
Fall	Credits		Credits
PHYS 213 & PHYS 214 [*]		PHYS 237 [*]	3
MATH 230 [*]	4	MATH 251 [*]	4
MATH 220	2	CAS 100A, 100B, or 100C [‡]	3
General Education Course	3	CMPSC 101, 121, 131, 200, 201, or 204	3
General Education Course (GHW)	1.5	General Education Course	3
	14.5		16
Third Year			
Fall	Credits	Spring	Credits
PHYS 400 [*]	4	PHYS 410 [*]	4
PHYS 419 (or MATH 400	3	PHYS 419 (or MATH 400	3
level selection (consult with		level selection (consult	
an academic adviser for		with an academic advier for	
options)) ^{*1} PHYS 444 [*]	0	options)) [*] ESC 313	2
			3
ESC 312		General Education Course	3
General Education Course		General Education Course	3
	15		16
Fourth Year		. ·	
Fall	Credits	· - +	Credits
PHYS 420		PHYS 457W	3
PHYS 412	3	ESC 400 level selection	3
		(consult with an academic adviser for options)	
ESC 400 Level Selection	3	Supporting Course (consult	3
(consult with an academic	0	with an academic adviser for	
adviser for options)		options)	
ENGL 202C [‡]	3	Supporting Course (consult	3
		with an academic adviser for	
		options)	

General Education Course	3 General Education Course (GHW)	1.5
	15	13.5

Total Credits 120

* 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

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Materials-Nanotechnology Option - Materials Track: Physics, B.S. at University Park Campus

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First Year

Fall	Credits		Credits
PHYS 211 ^{*#}		PHYS 212 ^{*#}	4
MATH 140 ^{*‡#†}		MATH 141 ^{*‡#†}	4
CHEM 110 ^{*‡#†}		CHEM 112 [†]	3
CHEM 111 [†]	1	ENGL 15, 30H, or ESL 15 \ddagger	3
PSU 16	1		
General Education Course	3		
	16		14
Second Year			
Fall	Credits	Spring	Credits
PHYS 213 & PHYS 214 [*]	4	PHYS 237 [*]	3
MATH 230 [*]	4	MATH 251 [*]	4
MATH 220	2	CAS 100A, 100B, or 100C [‡]	3
MATSE 201	3	CMPSC 101, 121, 131, 200, 201, or 204	3
General Education (GHW)	1.5	General Education Course	3
	14.5		16
Third Year			
Fall	Credits	Spring	Credits
PHYS 400 [*]	4	PHYS 410 [*]	4
PHYS 419 (or MATH 400	3	PHYS 419 (or MATH 400	3
level selection (consult with		level selection (consult with	
an academic adviser for options)) ^{*1}		level selection (consult with an academic adviser for options)) *1	
an academic adviser for	2	an academic adviser for	3
an academic adviser for options)) ^{*1}		an academic adviser for options)) ^{*1}	3
an academic adviser for options)) ^{*1} PHYS 444 [*]	3	an academic adviser for options)) ^{*1} MATSE 436 or 402	
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430	3	an academic adviser for options)) ^{*1} MATSE 436 or 402 General Education Course General Education Course	3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course	3 1	an academic adviser for options)) ^{*1} MATSE 436 or 402 General Education Course General Education Course	3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course	3 1 1.5	an academic adviser for options)) ^{*1} MATSE 436 or 402 General Education Course General Education Course	3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW)	3 1 1.5	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course	3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year	3 1 1.5 14.5 Credits	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course	3 3 16
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall	3 1 1.5 14.5 Credits	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course	3 3 16 Credits
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with	3 1 1.5 14.5 Credits	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course Spring PHYS 457W* PHYS 420 (or MATSE 400 level selection (consult with	3 3 16 Credits 3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for	3 1 1.5 14.5 Credits	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course Spring PHYS 457W [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for	3 3 16 Credits 3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins)) [*]	3 1 1.5 14.5 Credits 3 3	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course Spring PHYS 457W [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins))*	3 3 16 Credits 3 3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins)) [*] ENGL 202C [‡]	3 1 1.5 14.5 Credits 3 3 3 3	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course PHYS 457W* PHYS 457W* PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins))* General Education Course	3 3 16 Credits 3 3 3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins)) [*]	3 1 1.5 14.5 Credits 3 3 3 3	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course PHYS 457W* PHYS 457W* PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins))* General Education Course Supporting Course (consult	3 3 16 Credits 3 3 3 3 3 3
an academic adviser for options)) ^{*1} PHYS 444 [*] MATSE 430 MATSE 460 General Education Course (GHW) Fourth Year Fall PHYS 412 [*] PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins)) [*] ENGL 202C [‡]	3 1 1.5 14.5 Credits 3 3 3 3	an academic adviser for options))*1 MATSE 436 or 402 General Education Course General Education Course PHYS 457W* PHYS 457W* PHYS 420 (or MATSE 400 level selection (consult with an academic adviser for optoins))* General Education Course	3 3 16 Credits 3 3 3 3 3 3

	15	15	
	options)		
	with an academic adviser for		
General Education Course	3 Supporting Course (consult		

Total Credits 121

* 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

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