

PHYSICS: APPLIED PHYSICS, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2025-2026. Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

Minimum Overall Grade Point Average: 2.00

Total Hours: 120

Code	Title	Hours
General Education Requirements		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History & Government</i>		
HIST 1103	Survey of American History	3
or HIST 1483	American History to 1865 (H)	
or HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
<i>Quantitative Thought & Logical Reasoning (Q)</i>		
MATH 2144	Calculus I (Q) ¹	4
MATH 2153	Calculus II (Q) ¹	3
<i>Understanding Humanities-Human Heritage & Cultures (H)</i>		
Courses designated (H)		6
<i>Reasoning in the Natural Sciences (N)</i>		
Must include one Laboratory-Based Inquiry (L) course		
CHEM 1314	Chemistry I (LN) ¹	4
Course designated (N)		2
<i>Exploring Society & Human Behavior (S)</i>		
Courses designated (S)		3
<i>Diversity (D)</i>		
Courses designated (D)		3
<i>Global Cultural Competency (G)</i>		
Courses designated (G)		3
<i>Additional General Education</i>		
Additional general education credit hours may be required to meet the total 40-hour minimum of general education credit if courses carry more than one general education designation and can be used to meet multiple general education designation hour requirements above.		
Courses designated (Q), (H), (N), (S), (D), (G), or (F).		0
Hours Subtotal		40

College/Departmental Requirements

UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
<i>Arts & Humanities</i>		
See note 2.a.		3
<i>Natural & Mathematical Sciences</i>		
CHEM 1515	Chemistry II (LN)	5
PHYS 2014	University Physics I (LN)	4
<i>Foreign Language</i>		
0-6 hours. See note 3.		
<i>Upper-Division General Education</i>		
Select 6 hours outside major department. See note 2.c.		
Hours Subtotal		13
Major Requirements		
Minimum GPA 2.00 with a minimum grade of "C" in each course		
<i>Core Requirements</i>		
PHYS 2114	University Physics II (LN)	4
PHYS 2203	University Physics III	3
PHYS 3013	Mechanics I	3
PHYS 3323	Modern Laboratory Methods I	3
PHYS 3513	Mathematical Physics	3
PHYS 3623	Modern Laboratory Methods II	3
PHYS 3713	Modern Physics	3
PHYS 4113	Electricity and Magnetism	3
MATH 2163	Calculus III	3
MATH 2233	Differential Equations	3
<i>Additional Requirements</i>		
Select 9 upper-division hours in in any one academic department ²		9
Select 9 upper-division hours ²		9
Hours Subtotal		49
Electives		
Select 18 hours ²		18
May need to include 6 hours of a foreign language (see note 3)		
May need to include 6 hours upper-division general education outside major department (see note 2.c.).		
MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144.		
Suggested electives: ASTR, CS, and MATH		
Hours Subtotal		18
Total Hours		120

¹

College and Departmental Requirements that may be used to meet General Education Requirements.

²

With approval from the advisor and department head, a maximum of 30 hours from an accredited doctoral health program may be used for these 18 hours and up to 12 hours of electives.

Other Requirements

- See the College of Arts and Sciences Requirements.
- Upper-Division Credit:** Total hours must include at least 40 hours in courses numbered 3000 or above.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 and 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2031.