Physics: Applied Physics, BS

PHYSICS: APPLIED PHYSICS, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00

Title

Total Hours: 120

Code

General Education Requirements English Composition See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government 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 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 MATH 2153 Calculus II (A) 1 3 Humanities (H) Courses designated (H) Matticulde one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Course designated (N) Social & Behavioral Sciences (S) Courses designated (S) Additional General Education Courses designated (N) Nay be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) May be completed in any part of the degree plan Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. Natural & Mathematical Sciences	Code	ritte	Hours
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1213 Composition II ENGL 3323 Technical Writing American History & Government HIST 1103 Survey of American History OHIST 1483 American History to 1865 (H) OR HIST 1493 American History Since 1865 (DH) POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 MATH 2153 Calculus II (A) 1 MATH 2153 Calculus II (A) 1 Courses designated (H) Courses designated (H) Courses designated (N) Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	General Education	Requirements	
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ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government 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 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 MATH 2153 Calculus II (A) 1 3 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Course designated (N) 2 Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Select one of the fo	llowing:	3
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or HIST 1493 American History Since 1865 (DH) POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 MATH 2153 Calculus II (A) 1 3 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Course designated (N) 2 Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	HIST 1103	Survey of American History	3
POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 MATH 2153 Calculus II (A) 1 3 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Course designated (N) 2 Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	or HIST 1483	American History to 1865 (H)	
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CHEM 1314 Chemistry I (LN) 1 4 Course designated (N) 2 Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Natural Sciences (N)		
Course designated (N) 2 Social & Behavioral Sciences (S) Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Must include one L	aboratory Science (L) course	
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Courses designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Course designated	(N)	2
Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Social & Behavioral S	Sciences (S)	
Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Courses designated	d (S)	3
Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Additional General E	ducation	
Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Courses designated	d (A), (H), (N), or (S)	6
May be completed in any part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Hours Subtotal		40
Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Diversity (D) & Inter	rnational Dimension (I)	
Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	May be completed	in any part of the degree plan	
College/Departmental Requirements First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Select at least one	Diversity (D) course	
First Year Seminar (Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	Select at least one	International Dimension (I) course	
(Transfer students with 15 hours exempt) 1 Arts & Humanities See note 2.a. 3	College/Departmen	tal Requirements	
Arts & Humanities See note 2.a. 3	First Year Seminar		
See note 2.a. 3	(Transfer students	with 15 hours exempt)	1
	Arts & Humanities		
Natural & Mathematical Sciences	See note 2.a.		3
	Natural & Mathemat	ical Sciences	

Total Hours		120
Hours Subtotal		18
	s: ASTR, CS, and MATH	
place directly into N	ATH 1813 required for students who do not NATH 2144.	
outside major depa	rtment (see note 2.c.).	
•	e 6 hours upper-division general education	
	e 6 hours of a foreign language (see note 3)	
Select 18 hours ²		18
Electives		
Hours Subtotal		49
Select 9 upper-divis	sion hours ²	9
Select 9 upper-divis	sion hours in in any one academic department	9
Additional Requirem	ents	
MATH 2233	Differential Equations	3
MATH 2163	Calculus III	3
PHYS 4113	Electricity and Magnetism	3
PHYS 3713	Modern Physics	3
PHYS 3623	Modern Laboratory Methods II	3
PHYS 3513	Mathematical Physics	3
PHYS 3323	Modern Laboratory Methods I	3
PHYS 3013	Mechanics I	3
PHYS 2203	University Physics III	3
PHYS 2114	University Physics II (LN)	4
Core Requirements	with a minimum grade of Comeach course	
Major Requirement	with a minimum grade of "C" in each course	
Hours Subtotal	-	13
	ide major department. See note 2.c.	10
Upper-Division Gene		
0-6 hours. See note	•	
Foreign Language	0	
PHYS 2014	University Physics I (LN)	4
CHEM 1515	Chemistry II (LN)	5
0115141515		_

1

Hours

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.

College of Arts and Sciences Requirements

1. **Hours in One Department:** For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. Courses used to satisfy the General Education

English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum required from one department.

2. A&S College/Departmental Requirements

- a. Arts and Humanities are defined as any course carrying an
 (H) designation or courses from AMST, ART, DANC, ENGL
 (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
- b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.
- c. Six upper-division hours are required from General Education or any CAS courses outside the student's major department (http:// catalog.okstate.edu/college-arts-sciences-major-departments/). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
- d. Non-Western Studies Requirement for B.A. and B.F.A.; One course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
- e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3. Foreign Language Proficiency

- a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.
- b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
- c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of

- college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.
- Exclusions. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth 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 2029.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
CHEM 1314	Chemistry I (LN)	4
MATH 2144	Calculus I (A)	4
General Education c	courses	6
	Hours	14
Spring		
CHEM 1515	Chemistry II (LN)	5
MATH 2153	Calculus II (A)	3
PHYS 2014	University Physics I (LN)	4
General Education o	courses	3
	Hours	15
Sophomore		
Fall		
MATH 2163	Calculus III	3
PHYS 2114	University Physics II (LN)	4
General Education of	courses	9
	Hours	16
Spring		
PHYS 2203	University Physics III	3
PHYS 3513	Mathematical Physics	3
MATH 2233	Differential Equations	3
College and Elective	courses	6
	Hours	15
Junior		
Fall		
PHYS 3013	Mechanics I	3

	Total Hours	120
	Hours	15
Major, College, and	Elective courses	12
PHYS 3623	Modern Laboratory Methods II	3
Spring		
	Hours	15
Major, College, and	Elective courses	12
PHYS 3323	Modern Laboratory Methods I	3
Fall		
Senior		
	Hours	15
Major, College, and	Elective courses	15
Spring		
	Hours	15
Major, College, and	Elective courses	6
PHYS 4113	Electricity and Magnetism	3
PHYS 3713	Modern Physics	3