PHYSICS: SECONDARY TEACHER CERTIFICATION, 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: 2.50

Total Hours: 120

Code	Title	Hours
General Education	Requirements	_
English Composition	1	
See Academic Reg	ulation 3.5 (http://catalog.okstate.edu/	
university-academi	c-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	
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
Quantitative Though	nt & Logical Reasoning (Q)	
MATH 2144	Calculus I (Q) 1,2	4
Understanding Hum	anities-Human Heritage & Cultures (H)	
Courses designated (H)		6
Reasoning in the Na	tural Sciences (N)	
-	aboratory-Based Inquiry (L) course	
CHEM 1314	Chemistry I (LN) ^{1,2}	4
PHYS 2014	University Physics I (LN) 1,2	4
Exploring Society &		
Courses designated (S)		3
Diversity (D)		
Courses designated	d (D)	3
Global Cultural Com	• ,	
Courses designated	• • • •	3
Additional General		
	education credit hours (at least 1 hour) are	
•	e total 40-hour minimum. If courses carry	
more than one gen	eral education designation and can be used	
•	inimum general education designation hours	
	hour of additional general education will be	
•	eet the 40-hour minimum.	
	d (Q), (H), (N), (S), (D), (G), or (F).	1
Hours Subtotal		40
College/Departmen	ntal Requirements	

UNIV 1111	First Year Seminar (or other approved first- year seminar course)	1	
Arts & Humanities			
PHIL 3933	Creation and Evolution	3	
Natural & Mathematical Sciences			
MATH 2153	Calculus II (Q)	3	
BIOL 1113	Introductory Biology (N)	3	
CHEM 1515	Chemistry II (LN) ²	5	
PHYS 2114	University Physics II (LN)	4	
Foreign Language			
0-6 hours. See note 3.			
Upper-Division General Education			
Select 6 hours outside major department. See note 2.c.			
Hours Subtotal	· ·	19	
Major Requirements			
Physics Core			
,	nd minimum grade of "C" or "P"		
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	
MATH 2163	Calculus III	3	
MATH 2103 MATH 2233		3	
STAT 4013	Differential Equations	3	
	Statistical Methods I (Q)	3	
Additional Requirements:			
Secondary Education Professional Core			
Minimum GPA 2.50 a course	nd minimum grade of "C" or "P" in each		
SMED 1012	Inquiry Approaches to Teaching	2	
SMED 3013	Knowing and Learning in K-12 Education	3	
SMED 4023	Advanced Field Placement in Mathematics and Science	3	
SMED 4611	Authentic Research in the Science Classroom	1	
SMED 4613	Teaching the Nature of Science Through an Inquiry Approach ³	3	
SMED 4713	Teaching and Learning Science in the Secondary School ³	3	
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education ³	3	
SPED 3202	Educating Exceptional Learners	2	
CIED 3313	Field Experience in the Secondary Schools	3	
CIED 4720	Internship in the Secondary Classroom ³	6	
Hours Subtotal	· · · · · · · · · · · · · · · · · · ·	56	
Electives			
Select 5 hours			
May need to include 6 hours of a foreign language (see note 3)			
MATH 1513 and MATH 1813 required for students who do not			
place directly into MATH 2144.			

Hours Subtotal 5 Total Hours 120

1

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

2

Minimum GPA 2.50 and minimum grade of "C" or "P."

3

Full admission to Professional Education required.

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.
- Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.

College of Arts and Sciences Requirements

 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 54hour 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 (Q), PHIL 3003 Symbolic Logic (Q) 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 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; 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 2031.