

# BACHELOR OF SCIENCE (B.S.) MAJOR IN PHYSICS (TEACHER CERTIFICATION IN PHYSICS/MATHEMATICS, GRADES 7-12)

**Minimum Required: 123-125  
semester credit hours**

## Admission Requirement

- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (<http://mycatalog.txstate.edu/undergraduate/education/office-of-educator-preparation>).

## General Requirements

- The general education core curriculum courses are listed in the degree plan below along with the statewide component code number. See the General Education Core Curriculum (<http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum>) section of this catalog for the Texas State requirements and options in the core curriculum, including Honors courses.
- A minor in Secondary Education is required.
- In addition to the major, minor and general education core curriculum requirements, students must also complete 21 hours of professional sequence courses under the College of Education. All coursework must be completed prior to enrolling in EDST 4681.
- To satisfy graduation requirements for teacher certification, students must have at least a 2.75 Overall GPA, a major GPA of at least 2.50 with no grades less than a "C" in all major courses, a GPA of at least 2.50 in all assigned courses in the professional sequence with no grades less than a "C", and a Secondary Education minor GPA of at least 2.50 with no grades less than a "C" in all minor courses.
- Majors must complete a minimum of 36 advanced hours (3000 or 4000 level courses).
- Nine semester credit hours must be writing intensive (WI).
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- All students seeking teacher certification must apply for and be admitted to the Educator Preparation Program in order to enroll in education coursework and student teaching in the Junior and Senior years. Refer to the requirements for Admittance to the Educator Preparation Program through the Office of Educator Preparation (<http://mycatalog.txstate.edu/undergraduate/education/office-of-educator-preparation>).
- The Texas Education Agency (TEA) requires multiple background checks for progression through the Educator Preparation Program. Based on information recorded in your criminal history, you may be ineligible for issuance of a teaching certificate upon completion of the Educator Preparation Program. If you have a criminal history, you may obtain a Preliminary Criminal History Evaluation from TEA. For more information,

go to: [https://tea.texas.gov/Texas\\_Educators/Investigations/Preliminary\\_Criminal\\_History\\_Evaluation-FAQs/](https://tea.texas.gov/Texas_Educators/Investigations/Preliminary_Criminal_History_Evaluation-FAQs/).

## Course Requirements

				Freshman
First Semester	Hours	Second Semester	Hours	
PHYS 1430	4	PHYS 2435	4	
MATH 2471 (Mathematical Component Code 020)	4	MATH 2472	4	
US 1100	1	ENG 1320 (Communication Component Code 010)	3	
ENG 1310 (Communication Component Code 010)	3	HIST 1310 (American History Component Code 060)	3	
Social & Behavioral Sciences Component Code 080	3	PHYS 2230	2	
15		16		

						Sophomore
First Semester	Hours	Second Semester	Hours	Summer	Hours	
PHYS 2425 (Component Area Option Code 090/093)	4	PHYS 3320	3	Summer I:		
MATH 3373	3	MATH 3323	3	HIST 1320 (American History Component Code 060)	3	
CHEM 1141	1	PHYS 3312	3	POSI 2310 (Government/Political Science Component Code 070)	3	
CHEM 1335 (Life & Physical Sciences Component Code 030) <sup>1</sup>	3	PHYS 2150	1	Summer II:		

2 Bachelor of Science (B.S.) Major in Physics (Teacher Certification in Physics/Mathematics, Grades 7-12)

PHIL 1305 or 1320 (Language, Philosophy & Culture Component Code 040)	3 PHYS 3210	2 ART 2313, DAN 2313, MU 2313, or TH 2313 (Creative Arts Component Code 050)	3
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COMM 131C (Component Area Option Code 090/091)	3 POSI 2320 (Governmen Political Science Component Code 070)	3
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14	15	12
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**Junior**

First Semester	Hours	Second Semester	Hours	Summer	Hours
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PHYS 4310	3	PHYS 3311	3	MATH 3315	3
PHYS Upper Division Lab or PHYS elective <sup>2</sup>	3-4	PHYS Upper Division Lab or PHYS elective <sup>2</sup>	3-4	MATH 3330	3
CI 3325	3	CI 4332	3	MATH 4304	3
MATH 3305	3	PHYS 4360	3		

12-13	12-13	9
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**Senior**

First Semester	Hours	Second Semester	Hours
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PHYS 4312	3	EDST 4681	6
RDG 3323	3		
CI 4343	3		
CI 4370	3		
	12		6

Total Hours: 123-125

<sup>1</sup> BIO 1330/BIO 1130 or BIO 1331/BIO 1131 may be taken instead of CHEM 1335/CHEM 1141.

<sup>2</sup> Upper Division Labs: PHYS 3411, PHYS 3416, PHYS 3417, PHYS 3418; Other PHYS electives: PHYS 3313, PHYS 4305, PHYS 4311, PHYS 4315

<sup>3</sup> The Physics Faculty Undergraduate Advisor invites students to propose substituting PHYS 4321 for one required advanced course.