BS in Physics - Physical Science Teaching Track 2025 - 2026 Catalog

Freshman Year

This plan is unofficial and should be used for reference only.

First Semester*	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
PHYS 101 Topics in Cont. Physics[1]	(1-0)	1		ASTR 102 Observational Astronomy[1]	(0-3)	1
MATH 171 Calculus I[1]	(4-0)	4		PHYS 206 Newtonian Mech. for Engr. and Sci.[1]	(3-0)	3
PHYS 150 Intro to Programming for Physics[1]	(3-0)	3		PHYS 226 Physics of Motion Lab for Sci.[1]	(0-2)	1
ENGL 103/104 Comp. and Rhetoric	(3-0)	3		MATH 172 Calculus II[1]	(4-0)	4
HIST 105 History of the U.S.[2]	(3-0)	3		HIST 106 History of the U.S.[2]	(3-0)	3
ARSC 201 Exp. In Secondary Math/Sci.	(1-1)	1		Language, Philosophy and Culture elective[2]	(3-0)	3
		15				15

Sophomore Year

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
PHYS 207 Elect. & Mag. for Engr. and Sci.[1]	(3-0)	3		PHYS 225 Electronic Circuits	(1-4)	3
PHYS 227 Elect. & Mag. Lab for Sci.[1]	(0-3)	1		PHYS 309 Modern Physics[1]	(3-0)	3
PHYS 221 Optics and Thermal Physics[1]	(3-0)	3		PHYS 331 Theoretical Methods I[1]	(3-0)	3
MATH 221 Several Variable Calculus[1]	(4-0)	4		Communication elective[2]	(3-0)	3
MATH 308 Differential Equations[1]	(3-0)	3		INST 210 Understanding Special Pops.[4]	(3-0)	3
		14				15

Junior Year

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
PHYS 302 Adv. Mechanics I	(3-0)	3		PHYS 303/305 Adv. Mech. II/Adv. E&M II	(3-0)	3
PHYS 304 Adv. Elect. And Magn. I	(3-0)	3		PHYS 327 Experimental Physics I[3]	(1-2)	2
PHYS 332 Theoretical Methods II	(3-0)	3		PHYS 328 Experimental Physics II[3]	(1-1)	1
POLS 206 American National Government	(3-0)	3		PHYS 412 Quantum Mechanics I	(3-0)	3
INST 222 Found. of Ed. In a Multicult. Soc.[4,8]	(3-0)	3		TEFB 322 Teaching and Schooling[8]	(2-3)	3
				RDNG 465 Reading in Middle and Sec.	(3-0)	3
		15				15

Senior Year

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
PHYS 408 Thermodynamics/Stat. Mech.	(3-0)			Science or Technical elective[5]	(3-0)	3
POLS 207 State and Local Government	(3-0)	3		Creative Arts elective[2]	(3-0)	3
Electives[6]		3		Electives[6]		2
CHEM 119 Fundamentals of Chemistry I	(3-3)	4		CHEM 120 Fundamentals of Chemistry II	(3-3)	4
TEFB 324 Teaching Skills II[8]	(2-3)	3		TEFB 406 Sci. in Middle and Secondary[8]	(2-6)	3
		16				15

NOTES:
1. A physics major must complete the foundation courses (ASTR 102, PHYS 101, 150, 206/226, 207/227, 221, 309, 331, MATH 171, 172, 221, 308) with a grade of 'C' or better and have a 2.0 cumulative GPR before taking non-foundation upper-level physics courses.
2. Any course in this category from the approved University Core Curriculum list of courses.
3. PHYS 327 is an approved Univ. Writing course. PHYS 328 is an approved Univ. Communication course.
4. INST 210 is an approved Social and Behavioral Science. INST 222 is an approved Social and Behavioral Science and Cultural Discourse class.
5. Any upper-division course in geo/life/physical sciences, mathematics/statistics, or engineering (except 485/491).
6. Electives should be chosen in consultation with the student's advisor. Three hours must be in the area of Cultural Discourse unless this requirement is met with a course from the University Core Curriculum.
7. There are other classes that may be taken in place of this one. Please consult an advisor for options.
8. Students must apply, and be admitted, to aggieTEACH, before beginning this class. Students are required to have 2.75 overall GPA and a 2.5 GPA in content areas.

* ARSC 101 or an equivalent is required for all freshmen students in their first semester. This is a 0-credit hour course graded S/U.

***Beginning in the Sophomore Year – Second Semester: PHYS courses are only offered once a year in the semester shown on this plan. ***