

Four-Year Plan for B.S. Degree in Physics
Applied Physics Concentration
Tennessee Tech University
Effective August 1, 2025

FIRST YEAR			
FALL	Total Cr. Hrs.	15	SPRING
Course	Cr. Hrs.		Course
ENGL 1010 English Composition I	3		ENGL 1020 English Composition II
PHYS 1137 Frontiers of Physics	1		MATH 1920 Calculus II
MATH 1910 Calculus I	4		PHYS 2110 Calc-based Physics I w/Lab
CHEM 1110 General Chemistry I	4		CSC 1300 Intro Prob Solving & Comp Prog
Humanities/Fine Arts	3		

SECOND YEAR			
FALL	Total Cr. Hrs.	15	SPRING
Course	Cr. Hrs.		Course
ENGL 2130 or ENGL 2235 or ENGL 2330	3		MATH 2120 Differential Equations
MATH 2110 Calculus III	4		PHYS 3020 Topics in Modern Physics
PHYS 2120 Calc-based Physics II w/Lab	4		PHYS 3021 Modern Physics Laboratory
CSC 1310 Data Structures & Algorithms	4		PHYS 3060 Math Techniques in Physics
			PC 2500 Communicating in the Professions

THIRD YEAR			
FALL	Total Cr. Hrs.	15	SPRING
Course	Cr. Hrs.		Course
PHYS 3610 Classical Mechanics	3		PHYS 3120 Statistical Thermal Physics
PHYS 4610 Classical E & M I	3		PHYS 3810 Quantum Mechanics I
MATH 3470 Intro to Probability & Stats	3		Science/Engineering ²
Science/Engineering ²	3		Social/Behavioral Sciences
Humanities/Fine Arts	3		

FOURTH YEAR			
FALL	Total Cr. Hrs.	16	SPRING
Course	Cr. Hrs.		Course
PHYS 4711 Adv. Experimental Physics	2		HIST 2020 American History II
Physics Elective ¹	3		Physics Elective ¹
Science/Engineering ²	3		Science/Engineering ²
HIST 2010 American History I	3		Elective
Social/Behavioral Sciences	3		
Elective	2		

¹ Students choose two from the following: PHYS 3820, PHYS 4130, PHYS 4620, or PHYS 4760.

² Students minor in a Technical Field or agreed interdisciplinary program (15 cr. hrs.) which includes at least 6 cr. hrs. of upper division. The minor may be in any of the Natural Sciences disciplines offered in the College of Arts and Sciences (except Physics or Math), or any of the disciplines in the College of Engineering.