

Four-Year Plan for B.S. Degree in Physics
Astrophysics 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
PC 2500 Communicating in the Profs	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 Mathematical Techniques in Physics
			ASTR 1020 Introduction to Astronomy II

THIRD YEAR			
FALL	Total Cr. Hrs.	16	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		GEOL 3310 Planetary Geology
Humanities/Fine Arts	3		Humanities/Fine Arts
ASTR 1010 Introduction to Astronomy I	4		Social/Behavioral Sciences

FOURTH YEAR			
FALL	Total Cr. Hrs.	15	SPRING
Course	Cr. Hrs.		Course
ASTR 3100 Observational Astronomy	4		ASTR 4310 Introduction to Cosmology
ASTR 4320 Stellar Astrophysics	3		ASTR 4760 Senior Thesis
HIST 2010 American History I	3		HIST 2020 American History II
Social/Behavioral Sciences	3		Elective
Elective	2		