CLEAR PATH for ADVISING – *Physics: STEM Education, B.S.* **2025-2026**

Please refer to the Undergraduate Catalog for further program requirements and course descriptions.

First Year – 33-36 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
CHEM 1110/1110L: *General Chemistry I/Lab* (Natural Science)	4	CHEM 1120/1120L: *General Chemistry II/Lab* (Natural Science)	4
MATH 1950: *Calculus with Analytic Geometry I* (Quantitative Reasoning)	4	MATH 1960: *Calculus with Analytic Geometry II*	4
STEM 1030: *Step One/Two: Inquiry-Based Mathematics and Science Teaching*	2	PHYS 1350: *Introduction to Data Analysis and Python Programming for STEM Students*	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
	16-18		17-18
Second Year – 31-35 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
MATH 2200: *Elementary Linear Algebra*	3	PHYS 2310/2310L: *Principles of Physics: Electricity and Magnetism/Lab*	4
MATH 2560: *Calculus with Analytic Geometry III*	4	PHYS 2320/2320L: *Principles of Physics: Optics and Modern Physics/Lab*	4
PHYS 2300/2300L: *Principles of Physics - Mechanics and Heat/Lab*	4	STEM 2020: *Classroom Interactions*	3
STEM 2010: *Knowing and Learning*	3	Individual and Global Citizenship	3-4
Humanities and Fine Arts	3-4	Elective	0-2
	17-18		14-17
Third Year – 32-33 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
MATH 2450: *Introduction to Differential and Difference Equations*	3	MATH 2100: *Introductory Statistics* or MATH 3100: *Applied Statistics* (Quantitative Reasoning)	3
PHYS 3410/3410L: *Classical Mechanics/Lab*	4	PHYS 3420/3420L: *Electricity and Magnetism/Lab*	4
PHYS 3980: *Methods of Experimental Physics I*	3	PHYS 4110: *Introduction to Quantum Mechanics*	3
STEM 3010: *Perspectives on Science and Mathematics*	3	STEM 3020: *Research Methods in Science*	3
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
	16-17		16
Fourth Year – 27-30 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
EDUC 2170: *Technology and Learning*	1	EDUC 4420: *Professional Seminar*	2
PHYS 3990: *Methods of Experimental Physics II*	3	STEM 4020: *Apprentice Teaching*	10
PHYS/ASTR Elective (3000-4000 Level)	4		
PHYS/ASTR Elective (3000-4000 Level)	1		
STEM 4010: *Project-Based Instruction*	3		
Behavioral and Social Science	3		
Elective	0-3		
	15-18		12

Completed:			
Graduation Requirements:	**Hrs**	**Degree Requirements:**	**Hrs**
128 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		96 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
45 Hours at 4-year Institution		0-5 Elective Hours	
		Foreign Language *(Not Required)*	