CLEAR PATH for ADVISING – *Physics, B.S.* **2023-2024**

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

First Year – 32-35 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 w/ Analytic Geometry I* (Quantitative Reasoning)	4	MATH 1960: *Calculus w/ Analytic Geometry II*	4
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
PHYS 1250: *The First Year Experience in Physics*	1	Behavioral and Social Science	3
	15-17		17-18
Second Year – 30-32 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
PHYS 2300/2300L: *Principles of Physics - Mechanics and Heat/Lab*	4	PHYS 2310/2310L: *Principles of Physics - Electricity and Magnetism/Lab*	4
MATH 2200: *Elementary Linear Algebra*	3	PHYS 2320/2320L: *Prinicples of Physics - Optics and Modern Physics/Lab*	4
Quantitative Reasoning	3	MATH 2450: *Intro to Differential/Difference Equations*	3
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4		
	16-17		14-15
Third Year – 30 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
PHYS 3410/3410L: *Classical Mechanics/Lab*	4	PHYS 3420/3420L: *Electricity & Magnetism/Lab*	4
PHYS 3980: *Methods of Experimental Physics I*	3	ENGL 2820: *Scientific Writing*	3
MATH 2560: *Calculus w/ Analytic Geometry III*	4	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (2000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
		Approved Oral Communication (THSP 1090)	3
	14		16
Fourth Year – 27-29 Hours			
Fall Semester:	**Hrs**	***Spring Semester:***	**Hrs**
PHYS 3990: *Methods of Experimental Physics II*	3	PHYS 4110: *Intro to Quantum Mechanics*	3
Math/Science Elective (3000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Individual and Global Citizenship	3-4
Math/Science Elective (3000-4000 Level)	3	Elective	0-1
	15		12-14

*Math/Science Electives may be chosen from physics, astronomy, chemistry, engineering, or Quantiative Reasoning at the 2000 Level or above, or from geology and biology or other fields with prior approval by department.

Completed:			
Graduation Requirements:	**Hrs**	**Degree Requirements:**	**Hrs**
120 Total Hours		30-36 General Education Hours	
39 Upper Division (3000-4000) Hours		89 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
45 Hours at 4-year Institution		0-1 Elective Hours	
		Foreign Language *(Not Required)*	