CLEAR PATH for ADVISING – *Mathematics: Actuarial Science, B.S.* 2025-2026

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

First Year – 27-30 Hours

Fall Semester:	Hrs	Spring Semester:	Hrs
MATH 1950: *Calculus w/Analytic Geometry I* (Quantitative Reasoning)	4	MATH 1960: *Calculus w/Analytic Geometry II*	4
CPSC 1100: *Fundamentals of Computer Science*	4	MATH 2200: *Elementary Linear Algebra*	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4	Elective (DATA 1000 or CPSC 1000)**	3
	14-16		13-14

Second Year – 32-33 Hours

Fall Semester:	Hrs	Spring Semester:	Hrs
MATH 2450: *Introduction to Differential/Difference Equations*	3	MATH 2560: *Calculus w/Analytic Geometry III*	4
ACC 2010: *Principles of Accounting I*	3	MATH 3000: *Introduction to Logic and Proof*	3
ECON 1010: *Principles of Economics: Macroeconomics* (Behavioral and Social Science)	3	ACC 2020: *Principles of Accounting II*	3
Humanities and Fine Arts	3-4	ECON 1020: *Principles of Economics: Microeconomics* (Behavioral and Social Science)	3
Natural Science with Lab	4	Natural Science without Lab	3
	16-17		16

Third Year – 30 Hours

Fall Semester:	Hrs	Spring Semester:	Hrs
MATH 3510: *Introduction to Analysis I*	3	MATH 3820: *Communicating Mathematics*	3
MATH 4130: *Introduction to Probability and Statistics*	3	MATH 4140: *Mathematical Statistics* (Quantitative Reasoning)	3
MATH 4200: *Linear Algebra and Matrix Theory*	3	ECON 3250: *Intermediate Macroeconomic Theory*	3
ECON 3240: *Intermediate Microeconomic Theory*	3	FIN 3370: *Principles of Insurance*	3
THSP 1090: *Public Speaking* (Writing and Communication)	3	Elective (ECON 3600)***	3
	15		15

Fourth Year – 25-33 Hours

Fall Semester:	Hrs	Spring Semester:	Hrs
MATH 4600: *Introduction to Numerical Analysis*	3	MATH 4160: *Applied Statistical Methods,* MATH 4310: *Mathematical Programming II,* or MATH 4320: *Nonlinear Optimization*	3
FIN 3020: *Essentials of Managerial Finance*	3	MATH Elective (3000-4000 Level)*	3
MATH Elective (3000-4000 Level)*	3	MATH Elective (3000-4000 Level)*	3
Individual and Global Citizenship	3-4	Humanities and Fine Arts	3-4
Elective	1-3	Elective	0-3
		Elective	0-1
	13-16		12-17

*Math 4160, 4510 and 4300 are strongly recommended Math Electives. MATH 3100 will not satisfy the requirement.

**DATA 1000 or CPSC 1000 is a prerequisite for ACC 2010.

***ECON 3600 is a strongly recommended Elective.

Completed:			
Graduation Requirements:	**Hrs**	**Degree Requirements:**	**Hrs**
120 Total Hours		25-31 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		82 Program (Major) Hours	
30 Hours at UTC		Minor Hours *(Not Required)*	
45 Hours at 4-year Institution		7-13 Elective Hours	
		Foreign Language *(Not Required)*	