CLEAR PATH for ADVISING – *Mathematics: Actuarial Science, B.S.*   2022-2023

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

First Year – 30-31 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
MATH 1950: *Calculus w Analytic Geometry I* (Math)	4	MATH 1960: *Calculus w Analytic Geometry II*	4
CPSC 1100: *Fundamentals of Computer Science*	4	MATH 2200: *Elementary Linear Algebra*	3
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
FAH: Historical Understanding	3	FAH: Thought, Values and Beliefs	3
		FAH: Literature	3
	14-15		16
Second Year – 32 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
MATH 2450: *Intro to Differential/Difference Equations*	3	MATH 2560: *Calculus w Analytical Geometry III*	4
ACC 2010: *Principles of Accounting I*	3	ACC 2020: *Principles of Accounting II*	3
ECON 1010: *Principles of Economics: Macroeconomics* (Behavioral Social and Science)	3	ECON 1020: *Principles of Economics: Microeconomics* (Behavioral and Social Science)	3
FAH: Visual and Performing Arts	3	MATH 3000: *Intro to Logic and Proof*	3
Natural Science with Lab	4	Natural Science without Lab	3
	16		16
Third Year – 30 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
MATH 4130: *Intro to Probability and Statistics*	3	MATH 4140: *Mathematical Statistics* (Statistics)	3
MATH 3510: *Intro to Analysis I*	3	FIN 3370: *Principles of Insurance*	3
MATH 3820: *Communicating Mathematics*	3	ECON 3250: *Intermediate Macroeconomic Theory*	3
MATH 4200: *Linear Algebra and Matrix Theory*	3	THSP 1090: *Public Speaking* (or THSP 2090)	3
ECON 3240: *Intermediate Microeconomic Theory*	3	Elective (ECON 4600)	3
	15		15
Fourth Year – 27-28 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
MATH 4600: *Numerical Analysis I*	3	MATH 4160: *Applied Stat Methods,* 4310: *Math Programming II,* or 4320: *Operations Research (Non-linear)*	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
Non-Western Culture	3	Elective	3
Elective	3	Elective	0-1
	15		12-13

*Math 4160, 4510 and 4300 are strongly recommended Math Electives if not taken as a required course. MATH 3100 will not satisfy the requirement.

Completed:			
Graduation Requirements:	Hrs	**Degree Requirements:**	Hrs
120 Total Hours		28-29 General Education Hours	
39 Upper Division (3000-4000) Hours		82 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
60 Hours at 4-year Institution		9-10 Elective Hours	
		Foreign Language *(Not Required)*	