East Central University
College of Health and Sciences
2024 - 2025 Mathematics - Applied Mathematics/Pre-Actuary Degree Plan

FIRST YEAR	
Fall Semester	**Spring Semester**
UNIV 1001 Tiger Connect	ENG 1213 Freshman Composition II
ENG 1113 Freshman Composition I	Cultural and Aesthetic Awareness (Interculutural Knowledge and Comptence) (3 hours)
GEN ED Civic Consciousness (3 hours)	MATH 2825 Calculus & Analytic Geometery I
MATH 1513 College Algebra	MATH 1223 Intro to Prob and Stats
MATH 1713 Trigonometry	
COMM 1113 Fund of Human Comm	
16 TOTAL HOURS	**15 TOTAL HOURS**

SECOND YEAR	
Fall Semester	**Spring Semester**
MIS 1903 Computer Business Applications	ACCT 2103 Financial Accounting
MATH 3025 Calculus & Analytic Geometery II	MATH 3033 Calculus and Analytic Geometry III
ECON 2003 Principles of Macroeconomics	Nature and Science (Lab Science) (4 hours)
CMPSC 1113 Computer Programming I	ECON 2013 Principles of Microeconomics
	Cultural and Aesthetic Awareness (Global Citizenship) (3 hours)
14 TOTAL HOURS	**16 TOTAL HOURS**

THIRD YEAR	
Fall Semester	**Spring Semester**
GEN ED Civic Consciousness (3 hours)	MATH 3513 Mathematical Statistics OR
CPSMA 3933 Operations Research OR	MATH 3583 Applied Statistics
ENG 3183 Technical and Prof Writing	CPSMA 3913 Discrete Math OR
FIN 3113 Financial Management	MATH 3713 Linear Algebra
MIS 3433 Management Info Systems	CPSMA 4413 Numerical Methods OR
Nature and Science (3-4 hours)	FIN 3913 Insurance Planning and Risk Management
	GEN ED Elective (1-2 hours)
	Electives (4 hours)
15-16 TOTAL HOURS	**14-15 TOTAL HOURS**

FOURTH YEAR	
Fall Semester	**Spring Semester**
MATH 4923 Perspectives in Mathematics	MATH 3513 Mathematical Statistics OR
CPSMA 3933 Operations Research OR	MATH 3583 Applied Statistics
ENG 3183 Technical and Prof Writing	CPSMA 3913 Discrete Math OR
Upper Division Elective* (3 hours)	MATH 3713 Linear Algebra
Electives (3 hours)	CPSMA 4413 Numerical Methods OR
MATH 4113 Differential Equations	FIN 3913 Insurance Planning and Risk Management
	Upper Division Elective* (3 hours)
	Electives (3 hours)
15 TOTAL HOURS	**15 TOTAL HOURS**

*Approved courses from MATH, CMPSC, MIS, MGMT, MKTG, BUSLW, or FIN (3000-4000)