

East Central University

College of Health and Sciences

2024 - 2025 Mathematics - Applied Mathematics/Pre-Actuary Degree Plan

FIRST YEAR

Fall Semester

UNIV 1001 Tiger Connect
ENG 1113 Freshman Composition I

GEN ED Civic Consciousness (3 hours)
MATH 1513 College Algebra
MATH 1713 Trigonometry
COMM 1113 Fund of Human Comm

16 TOTAL HOURS

Spring Semester

ENG 1213 Freshman Composition II
Cultural and Aesthetic Awareness (Intercultural Knowledge and Comptence) (3 hours)
MATH 2825 Calculus & Analytic Geometry I
MATH 1223 Intro to Prob and Stats

15 TOTAL HOURS

SECOND YEAR

Fall Semester

MIS 1903 Computer Business Applications
MATH 3025 Calculus & Analytic Geometry II
ECON 2003 Principles of Macroeconomics
CMPSC 1113 Computer Programming I

14 TOTAL HOURS

Spring Semester

ACCT 2103 Financial Accounting
MATH 3033 Calculus and Analytic Geometry III
Nature and Science (Lab Science) (4 hours)
ECON 2013 Principles of Microeconomics
Cultural and Aesthetic Awareness (Global Citizenship) (3 hours)

16 TOTAL HOURS

THIRD YEAR

Fall Semester

GEN ED Civic Consciousness (3 hours)
CPSMA 3933 Operations Research OR
ENG 3183 Technical and Prof Writing
FIN 3113 Financial Management
MIS 3433 Management Info Systems
Nature and Science (3-4 hours)

15-16 TOTAL HOURS

Spring Semester

MATH 3513 Mathematical Statistics OR
MATH 3583 Applied Statistics
CPSMA 3913 Discrete Math OR
MATH 3713 Linear Algebra
CPSMA 4413 Numerical Methods OR
FIN 3913 Insurance Planning and Risk Management
GEN ED Elective (1-2 hours)
Electives (4 hours)

14-15 TOTAL HOURS

FOURTH YEAR

Fall Semester

MATH 4923 Perspectives in Mathematics
CPSMA 3933 Operations Research OR
ENG 3183 Technical and Prof Writing
Upper Division Elective* (3 hours)
Electives (3 hours)
MATH 4113 Differential Equations

15 TOTAL HOURS

Spring Semester

MATH 3513 Mathematical Statistics OR
MATH 3583 Applied Statistics
CPSMA 3913 Discrete Math OR
MATH 3713 Linear Algebra
CPSMA 4413 Numerical Methods OR
FIN 3913 Insurance Planning and Risk Management
Upper Division Elective* (3 hours)
Electives (3 hours)

15 TOTAL HOURS

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