Actuarial Mathematics Major

www.Mathematics.Pitt.edu(s)-1eEscience. The MATH 0470 course in the program, MATH 1119 and MATH 1121, follow the most recent syllabi approved by the Society of Actuaries and the Casualty Actuarial Society for these courses. The examinations in probability, financial mathematics and actuarial models for the associateship examinations of the two societies. Professional organizations sponsor study panels for students for taking these professional society examinations.

Requirements for the Actuarial Mathematics major
Students must complete 65 credits, 46 of which will be in mathematics and statistics.

Declaring the major
Before declaring this major, students must complete MATH 0220 Analytic Geometry and Calculus 2 or their equivalents, with a letter grade of C or better. Students must also complete **MATH 0470 Actuarial Mathemua7 MATH 0240 Analytic Geometry and Calculus 3 or** MATH 0245 Honors Analytic Geometry and Calculus 3

Analysis; choose one of the following courses
MATH 0413 Introduction to Theoretical Mathematics
MATH 0450 Introduction to Analysis

Professional Development
MATH 0500 Professional Development

Linear Algebra; choose one of the following courses
MATH 1180 Linear Algebra
MATH 1185 Honors Linear Algebra

Differential Equations; choose one of the following courses
MATH 1270 Ordinary Differential Equations 1
MATH 1275 Honors Ordinary Differential Equations 1

Actuarial Mathematics; all of the following courses
MATH 0470 Actuarial Mathematics 1
MATH 1121 Actuarial Mathematics 2
MATH 1119 Applied Probability for Actuarial Mathematics
MATH 1126 Predictive Analytics 1

Applied Mathematics; one of the following pairs of courses
MATH 1122 Actuarial Mathematics 3
MATH 1123 Actuarial Mathematics 4

MATH 1128 Actuarial Mathematics 5
MATH 1129 Actuarial Mathematics 6

Numerical Methods; one of the following courses
MATH 1070 Numerical Mathematical Analysis
MATH 1080 Numerical Linear Algebra
MATH 1127 Predictive Analytics 2

Economics; both of the following courses
ECON 1100 Intermediate Microeconomic Theory
ECON 1110 Intermediate Macroeconomic Theory

Computer Programming; choose one of the following courses
CS 0007 Introduction to Computer Programming in Java