A Sample Program of Study With General Emphasis **(**B.S. in Mathematics/M.A. without thesis**)**

Fall, year 1 (7)
MAT 270 Calculus with Analytic Geometry I (4 hr.) (core course)
CSE 200 Concepts of Computer Science (3 hr.)

Spring, year 1 (17)
MAT 271 Calculus with Analytic Geometry II (4 hr.) (core course)
MAT 342 Linear Algebra (3 hr.) (core course)
MAT 300 Mathematical Structures (3 hr.) (core course)

Fall, year 2 (24)
MAT 272 Calculus with Analytic Geometry III (4 hr.) (core course)
MAT 274 Elementary Differential Equations (3 hr.)

Spring, year 2 (30)
MAT 371 Advanced Calculus I (3 hr.) (core course)
MAT 410 Introduction to General Topology (3 hr.)

Fall, year 3 (39)
MAT 372 Advanced Calculus II (3 hr.)
MAT 461 Applied Complex Analysis (3 hr.)
MAT 443 Introduction to Abstract Algebra (3 hr.)

Spring, year 3 (48)
MAT 472 Intermediate Real Analysis I (3 hr.)
STP 420 Introductory Applied Statistics (3 hr.)
MAT 442 Advanced Linear Algebra (3 hr.)

Fall, year 4 (54)
MAT 415 Introduction to Combinatorics (3 hr.) (gc)
MAT 462 Applied Differential Equations (3 hr.)
MAT 444 Intermediate Algebra (3 hr.) (gc)
MAT 445 Theory of Numbers (3 hr.)

Spring, year 4 (57)
MAT 473 Intermediate Real Analysis II(gc) (3 hr.)
STP 421 Probability (3 hr.)
MAT 416 Introduction to Graph Theory(gc) (3 hr.)

Fall, year 5
MAT 570 Real Analysis (3 hr.)
MAT 543 Abstract Algebra (3 hr.)
MAT 572 Complex Analysis (3 hr.)

Spring, year 5

MAT 574 Theory of Ordinary Differential Equations (3 hr.)
MAT 576 Theory of Partial Differential Equations (3 hr.)
MAT 551 Linear Operators and Integral Equations (3 hr.)