

MATHEMATICAL SCIENCES**(Non-Elementary Education)**

I. General Education: Four semester hours (4 SH) of courses identified with an asterisk (*) may be applied to satisfy the 4 SH of General Education requirement.

II. Mathematical Sciences Second Academic Concentration Requirements 18 SH

A. Required Courses14 SH

MAT 3910 Introduction to the Logic & Structure of Mathematics I.....4 SH (F;S)

MAT 3920 Introduction to the Logic & Structure of Mathematics II.....4 SH (S)

(Prerequisite MAT 3910 or MAT 3920 or Instructor Permission)

MAT 4910 Informal Geometry3 SH (F)

(Prerequisite MAT 3910 or MAT 3920 or Instructor Permission)

MAT 4930 Basic Concepts of Probability & Statistics*3 SH (S)

(Prerequisite MAT 3910 or MAT 3920 or Instructor Permission)

B. Choose in consultation with an advisor in Mathematical Science4 SH

MAT 1025 Algebra and Elementary Functions*4 SH (F;S)

(Prerequisite Math Placement or MAT 0010)

MAT 1110 Calculus with Analytic Geometry I*4 SH (F;S)

(Prerequisite Math Placement or MAT 0010)

MAT 1120 Calculus with Analytic Geometry II.....4 SH (F;S)

(Prerequisite Math Placement or MAT 0010)

MAT 2110 Techniques of Proof3 SH (F;S)

(Prerequisite MAT 1120)

MAT 2130 Calculus with Analytic Geometry III4 SH (F;S)

(Prerequisite MAT 1120 with a grade of "C- " or higher)

MAT 2240 Introduction to Linear Algebra.....3 SH (F;S)

(Prerequisite MAT 1120 or Instructor Permission) (Junior or Senior)

MAT 3010 History of Mathematics2 SH (F)

(Prerequisite MAT 1120 and either MAT 2110 or 2510)

MAT 3110 Introduction to Modern Algebra3 SH (F;S)

(Prerequisite MAT 2110 and MAT 2240 or Instructor permission)

And RC 2001 or its equivalent)

MAT 3520 Instructional Assistance1 SH (F;S)

MAT 3610 Introduction to Geometry3 SH (F;S)

(Prerequisite MAT 1120 and MAT 2110 or MAT 2510)

NOTE: Students must observe all pre/co-requisites as listed in the Undergraduate Bulletin.

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NOTE FOR MIDDLE GRADES EDUCATION MAJORS: Middle Grades Education Majors selecting Mathematics as one of their two Middle Grades Concentrations satisfy this Mathematics Second Academic Concentration. **Middle Grades Education Majors should follow their Middle Grades Mathematics Program of Study and must contact Dr. Laurie Ramirez, Middle Grades Coordinator, 412F College of Education Building, 262-8008.**