

SECOND ACADEMIC CONCENTRATION
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 Courses.....14 SH

MAT 3910 Introduction to the Logic & Structure of Mathematics I
(Prereq: Junior or senior standing)4 SH (F)
 MAT 3920 Introduction to the Logic & Structure of Mathematics II.....4 SH (S)
(Prereq: MAT 3910)
 MAT 4910 Informal Geometry3 SH (F)
(Prereq: MAT 3910 or MAT 3920)
 MAT 4930 Basic Concepts of Probability & Statistics3 SH (On Demand)
(Prereq: MAT 3910 or MAT 3920)

B. Choose in consultation with an advisor in Mathematical Science.....4 SH

MAT 1025 Precalculus4 SH (F;S)
(Prereq: Math Placement or MAT 0010)
 MAT 1110 Calculus with Analytic Geometry I*4 SH (F;S)
(Prereq: ND, MAT 1025 with grade of C- or higher or equivalent)
 MAT 1120 Calculus with Analytic Geometry II.....4 SH (F;S)
(Prereq: ND, MAT 1110 with grade of C- or higher or equivalent)
 MAT 2110 Techniques of Proof3 SH (F)
(Prereq: MAT 1120)
 MAT 2130 Calculus with Analytic Geometry III4 SH (F;S)
(Prereq: ND, MAT 1120 with a grade of "C-" or higher)
 MAT 2240 Introduction to Linear Algebra.....3 SH (F;S)
(Prereq: MAT 1120 or Instructor Permission)
 MAT 3010 Survey in the History of Mathematics.....2 SH (F)
(Prereq: MAT 2110 or MAT 2510)
 MAT 3110 Introduction to Modern Algebra*3 SH (F;S)
*(Prereq: MAT 2110 or MAT 2510 And RC 2001 or its equivalent,
 Co-req: MAT2240)*
 MAT 3520 Instructional Assistance (Junior or Senior Standing).....1 SH (F;S)
 MAT 3610 Introduction to Geometry3 SH (F;S)
(Prereq: MAT 2110 or MAT 2510)

Note: ND Prerequisite: Passing math placement test or successful completion of MAT 0010.

Contact Persons: Dr. Deborah Crocker Dept. of Mathematical Sciences Walker Hall Phone: 262-2381	Dr. Mark Ginn, Chairperson Dept. of Mathematical Sciences 342 Walker Hall Phone: 262-3050
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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.**