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 Geometry ............................................................... 3 SH (F)  
*(Prereq: MAT 3910 or MAT 3920)*
MAT 4930 Basic Concepts of Probability & Statistics ......................... 3 SH (On Demand)  
*(Prereq: MAT 3910 or MAT 3920)*

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

MAT 1025 Precalculus ............................................................................ 4 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 Proof .............................................................. 3 SH (F)  
*(Prereq: MAT 1120)*
MAT 2130 Calculus with Analytic Geometry III ................................. 4 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 Geometry ...................................................... 3 SH (F;S)  
*(Prereq: MAT 2110 or MAT 2510)*

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

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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.