

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**

Choose 18 semester hours from the following in consultation with an advisor in Mathematical Science.

- 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 2130 Calculus with Analytic Geometry III .....4 SH (F;S)  
*(Prerequisite MAT 1120)*
- MAT 2240 Introduction to Linear Algebra.....3 SH (F;S)  
*(Prerequisite MAT 1120 or Instructor Permission) (Junior or Senior)*
- MAT 3010 History of Mathematics .....2 SH (F)
- MAT 3110 Introduction to Modern Algebra .....3 SH (F;S)  
*(Prerequisite MAT 2110and MAT 2240 or Instructor permission  
And ENG 2001 or its equivalent)*
- MAT 3520 Instructional Assistance .....1 SH (F;S)
- MAT 3610 Introduction to Geometry .....3 SH (F;S)  
*(Prerequisite MAT 1120 and MAT 2110)*
- MAT 3910 Introduction to the Logic & Structure of Mathematics I.....4 SH (F;S)  
*( Junior/Senior)*
- 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 Geometry .....3 SH (F)
- MAT 4930 Basic Concepts of Probability & Statistics\* .....3 SH (On Demand)  
*(Prerequisite MAT 3910 or MAT 3920 or Instructor Permission)*
- STT 2810 Introduction to Statistics\* .....3 SH (F;S)
- CS 1410 Introduction to Computer Applications .....2 SH (F;S)  
*(Prerequisite Math Placement or MAT 0010)*

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| Contact Persons: | Dr. Deborah Crocker            | Dr. Mark Ginn, Chairperson     |
|                  | Dept. of Mathematical Sciences | Dept. of Mathematical Sciences |
|                  | Walker Hall                    | 343 Walker Hall                |
|                  | Phone: 262-2381                | Phone: 262-3050                |

**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 contract Dr. Laurie Ramirez, Middle Grades Coordinator, 412F College of Education Building, 262-8008.**