MATHEMATICS
(Elementary Education)

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

II. **Elementary Mathematics Second Academic Concentration requirements**..............18 SH

A. **Select one General Education course from the following**.................................4 SH

- MAT 1010 Introduction to Mathematics* ..........................................................4 SH (F;S;SS)
- MAT 1020 College Algebra with Applications* ............................................4 SH (F;S;SS)
- MAT 1025 Precalculus (*Prereq: Must pass math placement test or MAT 0010) .......................................................................4 SH (F;S)
- MAT 1030 Calculus with Business Applications* (*Prereq: MAT 1020 or MAT 1025 or equivalent) ...........................................4 SH (F;S)
- MAT 1110 Calculus with Analytic Geometry I * (*Prereq: MAT 1025 with a grade of C- or higher or equivalent) ...........................................4 SH (F;S)

B. **Required**........................................................................................................5 SH

- MAT 2030 Mathematics for the Elementary School Teacher (3 SH)
  (1 SH of MAT 2030 to be counted toward SAC, *Prereq: MAT 1010 or higher or permission of the instructor*) ..................................1 SH (F;S)
- MAT/CI 3030 Investigating Mathematics and Learning* (*Prereq: MAT 2030 and RC 2001 or its equivalent) ..........................4 SH (F;S)

C. **Select 9 SH from the following**......................................................................9 SH

- MAT 3910 Introduction to the Logic and Structure of Mathematics I
  (*Prereq: Junior or Senior standing or permission of instructor*) ....................4 SH (F)
- MAT 4910 Informal Geometry (*Prereq: MAT 3910 or MAT 3920 or Permission of instructor) .........................................................3 SH (F)
- MAT 4930 Basic Concepts of Probability and Statistics (*Prereq: MAT 3910 or MAT 3920 or permission of instructor) ..................3 SH (On Demand)
- MAT Elective 2000 level or higher....................................................................2-3 SH
  (With approval of Advisor/Coordinator)

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