**MAT Program Coursework– Mathematics 5-12**

**Program Core Prerequisites (Grade of C or better required) for Admission to the MAT:**

* ENGL 101 Writing and Rhetoric I
* ENGL 102 Writing and Rhetoric II
* COMM 202 Fundamentals of Speech

**Specialization Course Requirements:**

These courses may be taken at the undergraduate or graduate level at any accredited college or university with a grade of C or better and a content GPA of 2.5 or better. At least half of these courses must be completed prior to admission (With an additional content knowledge test, admission can take place when 25% of the courses are completed.). All coursework not completed prior to admission must be completed prior to student teaching.

* MATH 207 Calculus I
* MATH 208 Calculus II
* MATH 254 Discrete Mathematics
* MATH 308 Calculus III
* MATH 310 Differential Equations (Any advanced Math course such as Number Theory, Real Analysis or Advanced Calculus may be substituted for this requirement)
* MATH 329 Mathematical Modeling (Numerical Methods or Numerical Analysis by be substituted for this requirement)
* MATH 307 Linear Algebra
* MATH 312 Introduction to Abstract Algebra
* MATH 321 Probability & Statistics
* MATH 414 History and Development of Mathematics
* MATH 424 Foundations of Geometry

**Master of Teaching Course Requirements:**

A grade of C or better is required in each of the following courses with an overall GPA of 3.0.

* EDUC 500 (3) Advancing the Use of Technology in the Classroom
* EDUC 503 (3) Literacy in the Content Area
* EDUC 527 (3) Inclusion Seminar
* EDUC 560 (3) Survey of Exceptionalities
* EDUC 581 (3) Social Foundations of American Education
* EDUC 582 (3) Learning in Contexts
* EDUC 583 (3) Planning, Conducting and Assessing Instruction
* EDUC 584 (3) Classroom Ecology
* EDUC 585 (3) Content Pedagogy
* Graduate Electives (6)
* EDUC 601 (6) Student Teaching

ALL coursework AND Praxis Content Tests are required prior to student teaching. A Teacher Performance Assessment is required during student teaching.