

## **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 may be substituted for this requirement)
- MATH 307 Linear Algebra
- MATH 312 Introduction to Abstract Algebra
- MATH 314: Statistics
- MATH 304 History of Mathematics
- MATH 303 Introduction to 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.