Courses

MTE 507. Foundations of Secondary Mathematics Education. 3 Credits.
Research methods in mathematics education; forces which have shaped mathematics education; classroom implications of 20th-century learning theorists; assessment in the classroom; methods of organizing for instruction; cultural and gender considerations. Typically offered in Summer.

MTE 508. Jr. High School Math - Curriculum, Instruction, and Assessment. 3 Credits.
This course will focus on the curricula, methods of instruction, and assessment techniques used to teach mathematics in a junior high school setting. Course topics will include elementary school mathematics from the perspective of a secondary school teacher, junior high school mathematics, algebra I, and general/consumer mathematics. Teachers also will explore strategies that can be used to integrate the calculator, computer, and new CD-ROM technologies into the mathematics classroom. Pre / Co requisites: MTE 508 requires prerequisite of MTE 507. Typically offered in Spring.

MTE 512. Sr. High School Math - Curriculum, Instruction and Assessment. 3 Credits.
This course will focus on the curricula, methods of instruction, and assessment techniques used to teach mathematics in a senior high school setting. Course topics will include geometries, algebra II, trigonometry, precalculus, and discrete mathematics. Teachers also will explore strategies that can be used to integrate the scientific and graphing calculator, computer, and the new CD-ROM technologies into the mathematics classroom. Pre / Co requisites: MTE 512 requires prerequisite of MTE 507. Typically offered in Spring.

MTE 552. Teaching Children Mathematics II. 3 Credits.
A continuation of the pedagogical strategies and methods for teaching the topics covered in MAT 351/MTE 553 extended to topics such as real numbers, geometry, percent, proportional reasoning, measurement, and algebra. Pre / Co requisites: MTE 552 requires a prerequisite of MTE 553 and field clearances. Typically offered in Fall.

MTE 553. Teaching Children Mathematics I. 3 Credits.
In-depth treatment of current pedagogical strategies and materials for teaching concepts including: early number sense; place value; addition, subtraction, multiplication, and division of whole numbers; and fractions in an elementary classroom. Pre / Co requisites: MTE 553 requires prerequisites of two mathematics courses. Typically offered in Fall.

MTE 557. Teaching Mathematics to Exceptional Children. 3 Credits.
An exploration of the literature and current practices in teaching mathematics to exceptional children in K-12 classrooms that focuses on the content, pedagogy, and pedagogical-content knowledge related to equitable and effective K-12 mathematics instruction. Emphasis on responding to interventions, assessing mathematics learning formatively, and developing strategies and interventions that target specific difficulties in learning mathematics. The activities and projects in this course are designed to develop the mathematical confidence, problem-solving skills, and communication skills of prospective teachers of exceptional students so that they can support all learners in seeing themselves as mathematicians. Pre / Co requisites: MTE 557 requires a prerequisite of EDA 542. Distance education offering may be available. Typically offered in Spring.

MTE 595. Topics in Mathematics Education. 1-3 Credits.
Topics announced at time of offering. Consent: Permission of the Department required to add.

MTE 599. Independent Study. 1-3 Credits.
Contact department for more information about this course.

MTE 604. Research Seminar. 3 Credits.
This course will focus on the study of research in mathematics education. Contemporary topics of research will be discussed and perused. Students will be expected to report on a topic of research of their choosing. In addition, empirical study and design will be discussed along with data analysis and the reporting of results.