MATHEMATICS  MTHE  EDUCATION

Program in Mathematics Education
College of Natural Science

430  History of Mathematics  Spring, 3(3-0) P: MTH 133 and MTH 301  SA: SME 430  Development of mathematical thought from ancient times to the present, selected from Egyptian, Babylonian, Mayan, Greek, Indian, and Arab contributions to mathematics and to the context of today's school mathematics curriculum.

800  Problems in Mathematics for Teachers  Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 15 credits in all enrollments for this course. RB: Elementary Certification or Secondary Certification in Mathematics Education. R: Open to graduate students in the Mathematics Education Major. Approval of department. Supervised study of problems or issues in mathematics education.


841  Critical Content of School Mathematics: Algebra  Fall of odd years. 3(3-0) RB: MTH 310 and MTH 320 R: Open to graduate students. SA: SME 841  Mathematical foundations of algebra. Historical development. Development in school curriculum. Research on teaching and learning.

842  Critical Content of School Mathematics: Geometry  Spring of even years. 3(3-0) RB: MTH 330 or MTH 432 R: Open to graduate students. SA: SME 842  Mathematical foundations of geometry, instructional materials. Historical development. Development of geometry in school curriculum. Research on teaching and learning.

879  Teaching College Mathematics  Fall of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics and Teacher Education. R: Past or concurrent mathematics teaching experience. SA: SME 879  Curriculum materials, case studies, approaches to teaching and student learning of particular mathematics topics.

890  Independent Study  Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to masters students. SA: SME 890  Individualized study for master's level students.

899  Master's Thesis Research  Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open to masters students in the Mathematics Education Major. Approval of department. Master's thesis research.

926  Proseminar in Mathematics Education I  Fall of odd years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics and Teacher Education. Administered by Mathematics Education. SA: SME 926  Research on the learning and teaching of mathematics. Focus on curriculum, discourse, equity and teacher education.

927  Proseminar in Mathematics Education II  Fall of even years. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics and Teacher Education. Administered by Mathematics Education. SA: SME 927  Research on the learning and teaching of mathematics. Focus on teaching, student learning, assessment and policy.

954  Design and Methods in Mathematics Education Research  Fall. 3(3-0) Interdepartmental with Counseling, Educational Psychology and Special Education and Mathematics and Teacher Education. RB: MTH 330 or MTH 432 R: Open to graduate students. SA: SME 954  History, current trends, and issues pertaining to research design and methods in mathematics education research. Mathematics education research in the areas of policy, teaching, teacher learning, and student learning with particular attention to how research design influence research findings.

990  Independent Study  Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to doctoral students. SA: SME 990  Individualized study for doctoral level students.

995  Research Practicum  Spring. 3 credits. RB: MTHE 954 R: Open to graduate students in the Mathematics Education Major. Approval of department. Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

997  Special Topics in Mathematics Education  Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. SA: MTH 997, SME 997  Advanced topics in mathematics education.

999  Doctoral Dissertation Research  Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 30 credits in all enrollments for this course. RB: MTHE 926 and MTHE 927 and MTHE 954 SA: SME 999  Doctoral dissertation research.