

UCC Document # 41College Document # COAS 030Review Type: Edit Exp Full**CATALOG YEAR 2012-2013**

COLLEGE/SCHOOL/SECTION: _____

Course: Add: _____ Delete: _____
(check all that apply) Change: Number _____ Title _____ SCH _____ Description **x** _____ Prerequisite _____
Changes are in **red**.

Justification for Description Change

This revision is needed to make sure appropriate TExES Mathematics Standards are covered in the course to improve the passing rates in state mathematics teacher certification exams.

MATH 3390

Principles of Mathematics for Elementary Educators. Three semester hours. (SP)

An in-depth study of the mathematical principles and concepts underlying the traditionally computational techniques for the teaching of mathematics at early childhood and elementary school levels. The course content includes problem solving; arithmetic, algebra, geometry, probability, logic, counting, numeration and number systems (including natural, integer, rational, and real number systems), and their historical development; content based teaching; integrating various areas of mathematics; and examining connections of college-level mathematics course contents with the mathematics content of and its effective teaching at the early childhood and elementary school levels. **In addition, TExES Mathematics Standards V-IX covering Mathematical Processes, Mathematical Perspectives, Mathematical Learning and Instruction, Mathematical Assessment, and Professional Development will be emphasized.** Students must earn a "C" or better to successfully complete the course. The course may not be counted toward a major or minor in Mathematics or for certification in secondary mathematics. Open only to early childhood/elementary education majors. Prerequisite: Completion of Block I and a grade of at least "C" in MATH 1351. It is strongly recommended to take this course concurrently with Block II.

Revised description submitted - see page 3.

Signature

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(check all that apply) Change: Number _____ Title _____ SCH _____ Description x Prerequisite _____
Changes are in **red** (first changes) and in **blue** (second changes).

Justification for Description Change

These revisions are required to make sure appropriate TExES Mathematics Standards and Competencies are covered in the course to improve the success rates in state mathematics teacher certification exams.

MATH 3390

Principles of Mathematics for Elementary Educators. Three semester hours. (SP)

An in-depth study of the mathematical principles and concepts underlying the traditionally computational techniques for the teaching of mathematics at early childhood and elementary school levels. The course content includes problem solving; arithmetic, algebra, geometry, probability, logic, counting, numeration and number systems (including natural, integer, rational, and real number systems), and their historical development; content based teaching; integrating various areas of mathematics; and examining connections of college-level mathematics course contents with the mathematics content of and its effective teaching at the early childhood and elementary school levels. **In addition, TExES Mathematics Standards V-IX covering Mathematical Processes, Mathematical Perspectives, Mathematical Learning and Instruction, Mathematical Assessment, and Professional Development will be emphasized.** Students must earn a "C" or better to successfully complete the course. The course may not be counted toward a major or minor in Mathematics or for certification in secondary mathematics. Open only to early childhood/elementary education majors. Prerequisite: Completion of Block I and a grade of at least "C" in MATH **1350 & 1351**. It is strongly recommended to take this course concurrently with Block II.