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
Qingwen Ni

Date

Department Curriculum Committee

Rafic Bachnak
COLLEGE/SCHOOL/SECTION: 

Course: Add: _______ Delete: _______
(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.

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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.