Minnesota State University Moorhead

MATH 502: Mathematics for Special Education

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
MATH 303 - Foundations of Number Systems (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: None

Development of number, algebra, geometry and measurement content along with methods for teaching mathematics in special education setting. Open only to majors and minors in special education. Does not substitute for MATH 406.

B. COURSE EFFECTIVE DATES: 01/14/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Students will be able to design, implement, monitor, and adjust instruction and supports to accelerate the rate of learning to grade level math content standards.
2. Students will be able to integrate knowledge of evidence-based instruction, including scientifically-based research interventions in math for students with characteristics of emotional or behavioral disorders or specific learning disabilities to design, implement, monitor, and adjust instruction aligned with grade-level content standards.
3. Students will be able to provide access to grade level math content standards by applying principles of universal design for learning and assistive technologies and selecting, developing, monitoring, modifying, and adjusting materials and instruction for students with emotional or behavioral disorders.
4. Students will be able to use feedback, ratio of student response, and schedules of practice and review, for delivering developmentally appropriate instruction and services to meet student needs related to increasing demands of grade level mathematics curriculum.
5. Students will be able to use task analysis, multisensory methods, modifying the scope and pace of instruction.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted