Administrative Unit: Education Department
Course Prefix and Number: EDUC 514
Course Title: Mathematics for the Special Needs Child

**Digital Descriptions:**

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<tr>
<th>STUDENT DESCRIPTION</th>
<th>PAY-HOUR DESCRIPTION</th>
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<td># Cr Hrs</td>
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Catalog Description: The study of specific theories and strategies of teaching mathematics to children with special needs. Techniques of remediation and intervention in math instruction at various ability levels will be discussed. There will be a strong application component to this course. Developmentally, appropriate practices will be presented. This course is specifically designed for teachers of children with mild/moderate disabilities.

Prerequisite: Graduate standing. Offered Fall semester.

Text: A combination of texts is advised for this course. One that focuses on the special needs child and another that addresses the most recent research and thought on "best practice" in mathematics education from early childhood through adolescence.

Course Objectives: 1. Students will review the basic concepts included in mathematics education for the target ability levels.
2. Students will explore the developmentally appropriate practices for teaching each of the handicaps included in the mild/moderate category.
3. Students will develop learning resources for math education.
4. Students will evaluate materials currently available in the field.
5. Students will evaluate children’s work to determine levels of achievement in math.
6. Students will develop individual math programs for special needs children.

Topical Outline: • Math concepts through NCTM and Missouri State Standards
• Developmentally appropriate practice for special needs children
• Application of theory into practice, constructing learning resources
• Current materials and curricula for math instruction
• Determination of strengths and needs for individual math students
• The IEP in relation to mathematics instruction

Recommended maximum class size for this course: 15

Prepared by: Ronald D. Taylor, Ed.D.
Name ____________________________ Signature ____________________________

Date: January 17, 2001

NOTE: The intention of this master course syllabus is to provide a general outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught, or where it is taught. This generic outline is not intended to restrict the way any individual faculty member teaches the course. The master syllabus, therefore, should be general enough to allow for a diversity of individual approaches to teaching the course, while at the same time it provides guidance on what the course should cover.