EDU 486 : Teaching Math and Science In Urban Grades 1-3

A. Course Description

Credits: 4

Prerequisites: EDU 323 Urban Pre-K and Kindergarten Curriculum and Practicum and completion of university GELS requirements for math and science goal areas.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This course will focus on strategies to excite and extend math and science experiences for primary age children. Students will review developmentally appropriate mathematics and science pedagogy and connect development to the practices used to design appropriate programs for primary age children in urban early childhood settings. Students will consider the appropriate practices for a program serving primary age children in a diverse urban community. Field experience hours in urban primary grades classrooms are part of the course requirements.

B. Course Effective Dates: 08/23/2008 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Apply informal and formal assessment and evaluation strategies to plan and differentiate curriculum and teaching practices for urban primary grades children with diverse knowledge bases, skills, and needs.
2. Design and maintain a positive learning environment conducive to promoting positive achievement outcomes in mathematics and science for primary age children.
3. Develop conceptual understanding of foundational math and science concepts and procedures.
4. Plan, design and implement developmentally appropriate and culturally relevant math and science concepts and experiences for primary age children.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: Admission to Urban Teacher Program or Department approval required to register. Clinical field experience hours are part of the course requirements.