A. Course Description

Credits: 4

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This course focuses on the nature and history of science and the implications for the teaching of science in urban middle and high schools. It examines scientific methods, the research processes in science and scientific literature. Students study the historical development of the major themes in science and the learning of those concepts by K-12 students. They also complete a science research project. It is intended for students pursuing science teaching licensure.

B. Course Effective Dates: 08/26/2006 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Demonstrate the ability to conduct a research project.
2. Describe the scientific and historical development of key scientific ideas.
3. Explain how students develop key concepts in science and develop/analyze student learning activities related to those concepts.
4. Explain the nature of scientific methods in conducting research and developing scientific conclusions.
5. Explain the relationships between science, technology, and societal factors related to issues and decision-making.
6. Make connections between the domains of science, technology and other disciplines.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: Admission to the Urban Teacher Program or Department approval required to register. Sequencing this course should be taken before SCED 450 and within one semester of student teaching. Required: Completion of at least 25 credits in science teaching major.