

SOUTHEAST MISSOURI STATE UNIVERSITY

College of Science and Mathematics

Course No. ST 660

Title of Course: Advanced Topics in Science Education

New: Spring 2000

I. Catalog Description and Credit Hours of the Course

An in-depth consideration of subject matter that is not a part of the established curriculum. Topics available can be obtained from the department chairperson. Lecture, discussion, and practical application sessions. (3)

II. Prerequisites

ST 603 Research Methods in Science Education or permission of instructor.

III. Purposes or Objectives of the Course

- A. To provide a mechanism for the intensive study of topics that are not a part of the established curriculum or that students wish to study in greater depth.
- B. To allow increased flexibility in curriculum planning by students and advisors.
- C. To provide students a forum for discussion and presentation of library-based inquiries.

IV. Expectations of the students:

- A. Students will be expected to attend class and participate actively in all class activities.
- B. Students will participate actively in discussion of other students' work.
- C. Students will utilize diverse primary literature and secondary resources in science education (including printed articles, books, data sets, government documents, and internet-based documents) to prepare a well-researched paper on an advanced topic. The paper will include both a review of research on the topic and a critical analysis of issues

V. Course Content or Outline

To be determined by instructor

VI. Textbook and/or Other Materials or Equipment Required

To be determined by instructor

VII. Basis of Student Evaluation

Participation in class activities	25%
Student presentation	25%
Final paper	50%

VIII. Programs Served by this Course

Required core course of the MNS in Science Education degree option.

Students in the MNS in Biology, Chemistry, Geoscience or Mathematics with an interest in education.

Students in the MA in Elementary or Secondary Education with an interest in science education.