

Minnesota State University Moorhead

HON 320: History of Science

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

In this course, students will examine and learn: The scientific method; the historical development of key natural science disciplines; key people and time periods in the development of disciplines; a framework for evaluating past experimental efforts; an understanding of current scientific approaches and data; and how science has impacted society throughout history and continues to impact our society today. Lab included. MnTC Goal 3.

B. COURSE EFFECTIVE DATES: 01/09/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Students will examine and learn the scientific method.
2. Students will have an understanding of current scientific approaches and data.
3. Students will have an understanding of how science has impacted society throughout history and continues to impact our society today.
4. Students will learn a framework for evaluating past experimental efforts.
5. Students will learn key people and time periods in the development of disciplines.
6. Students will learn the historical development of key natural science disciplines.

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

Goal 03 - Natural Science

1. Demonstrate understanding of scientific theories.
2. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
3. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted