

# Minnesota State University Moorhead

## AST 410: Astrophysics

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Mathematical representation and modeling of stellar structure and evolution. Mathematical consideration of nuclear processes and nucleosynthesis. Analysis of white dwarfs, neutron stars, and black holes. Astrophysics of the interstellar medium and galaxies. In-depth topics will vary depending on the interests of instructor and/or participants. Same as PHYS 410.

**B. COURSE EFFECTIVE DATES:** 04/05/2005 - 05/12/2017

### C. OUTLINE OF MAJOR CONTENT AREAS

None

### D. LEARNING OUTCOMES (General)

None

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted