A. Course Description

Credits:

Prerequisites: MATH 350 Ordinary Differential Equations AND
PHYS 212 Calculus Based Physics II AND
WRIT 231 Writing II and Instructor's permission required.

Lab Hours/ Weeks:

Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This is a faculty designed independent study (FDIS) which provides students the opportunity to do independent research in the field of theoretical and/or computational physics under the supervision of a resident physics faculty member. This course will improve problem solving, numerical/computational, and mathematical skills of the students. At the end of the course, students must complete a research report which must be approved by the instructor. The number of credits will be decided by the faculty and the student. ** Note: this is a variable credit course with credit range of 1 - 5.

B. Course Effective Dates: 03/09/2007 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Be prepared for graduate-level research in physics.
2. Conduct a supervised independent research project in theoretical and/or computational physics at a level appropriate for a senior undergraduate student in physics.
3. Find, read, interpret and utilize primary scientific literature in biology.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: Instructor permission to register.