A. Course Description

Credits:

Prerequisites: MATH 210 Calculus I AND PHYS 211 Calculus Based Physics I AND PHYS 212 Calculus Based Physics II OR MATH 211 Calculus II AND PHYS 211 Calculus Based Physics I AND PHYS 212 Calculus Based Physics II

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This course covers advanced topics in physics that vary from semester to semester. Because the content of each section of this course is different, students may take this course more than once for credit. Intended for students minoring in physics in their junior or senior year. ** Note: this is a variable credit course with credit range of 1 - 5.

B. Course Effective Dates: 08/16/2013 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Explain and apply scientific knowledge in a selected topic of physics, theoretical and/or experimental, at the upper division level.
2. Read and interpret primary scientific literature in physics.
3. Recall, explain and apply the concepts, knowledge and vocabulary of physics at the level necessary for success in undergraduate research and/or graduate study in this field.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: First day attendance required except by instructor permission