

Fall 2004  
MWF 9:30  
Dr. J. Bechhoefer  
Office: P8462

# **PHYSICS 211-3**

## **Intermediate Mechanics**

TEXTBOOK:     *"Introductory Classical Mechanics"*  
                  Author: David Morin  
                  (Available for purchase from the Physics Dept)

### **COURSE DESCRIPTION:**

An intermediate mechanics course covering kinematics, dynamics, energy, momentum, free, forced and damped oscillations, rigid body motion, gravitation.

Prerequisite: PHYS 121; or PHYS 101 & 102 with a grade of B or better.  
Corequisite: MATH 251 must precede or be taken concurrently.

Students may not count both PHYS 211 and MATH 263 for credit.

### **COURSE OUTLINE:**

1. Review of statics
2. Review of Dynamics
3. Oscillations
4. Conservation of Energy and Momentum
5. Lagrangian Methods
6. Control Forces
7. Angular Momentum
8. Accelerated Frames of Reference
9. Introduction to Waves

### **GRADING:**

Assignments	25%
Midterm	25%
Final Exam	50%