

**PHYSICS 217**  
**MECHANICS**  
**(3.0; 3 credits)**

**Textbook: Classical Mechanics**

by Tai L. Chow  
John Wiley & Sons 95

**Contents:**

1. Kinematics of particle motion
2. Newtonian formulation of mechanics including system of particles
3. Integration of Newtonian's equation of motion
4. Lagrangian formulation of mechanics
5. Hamiltonian Dynamics
6. Central force motion
7. Linear Oscillations
8. Nonlinear Oscillations and Chaos
9. Collisions
10. Noninertial Systems
11. Coupled Oscillations
12. Motion of rigid bodies

**N.B. Prerequisite: Mathematics 202.**

Fall 2000