

PHYS 201 Classical Mechanics

4 hours

Majors, Minors & Degrees:

Majors

Physics (B.S.)

Departments/Programs:

Physics, Astronomy, and Computer Science

An in-depth theoretical treatment of classical mechanics of particles and systems of particles with emphasis on the conservation laws of energy, momentum, angular momentum, and oscillations. Particular topics include Newtonian, Lagrangian, and Hamiltonian formalisms, non-inertial reference frames.

Four lecture/recitation periods per week.

Prerequisite(s): PHYS-101 or PHYS-111, MATH-106, and computer programming skills or permission of the instructor.

Corequisite(s): MATH-204 or MATH-224 or permission of the instructor.