Phys 310: Mechanics

Physics & Astronomy

This course is a study of the motion of systems of particles and rigid bodies in inertial and non-inertial reference frames, using the Newtonian, Lagrangian and Hamiltonian formulations of classical mechanics. Topics include harmonic motion, drag forces, conservative forces and energy, and the Coriolis and centrifugal forces.

3 Credits

Prerequisites

- Math 353: Elementary Differential Equations
- Phys 212 or Phys 303

Instruction Type(s)

- Lecture: Lecture for Phys 310

Subject Areas

- Physics, General

Related Areas

- Acoustics
- Atomic/Molecular Physics
- Condensed Matter and Materials Physics
- Elementary Particle Physics
- Nuclear Physics
- Optics/Optical Sciences
- Physics, Other
- Theoretical and Mathematical Physics