

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

- <u>Math 353: Elementary Differential Equations</u>
- Phys 212 or Phys 303

Instruction Type(s)

• Lecture: Lecture for Phys 310

Subject Areas

• Physics, General

Related Areas

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

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