

PHYS 241 Classical Mechanics I

3 hours

Majors, Minors & Degrees:

Majors

Physics (B.S.)

Departments/Programs:

Physics

A theoretical treatment of classical mechanics of particles and systems of particles with emphasis on the conservation laws of energy, momentum, and angular momentum. Particular topics in Newtonian, celestial, and continuum mechanics are studied. Vector calculus is developed and used as needed.

Three lectures 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.