1 Course Content

This is an advanced course on classical mechanics, a physical theory describing the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars, and galaxies. For objects governed by classical mechanics, if the present state is known, it is possible to predict how it will move in the future (determinism), and how it has moved in the past (reversibility). The course focuses on the introduction of Lagrangian and Hamiltonian formalism.

The textbook for the course is Intermediate Dynamics (2nd Edition) by Patrick Hamill. The class website is at http://abyss.uoregon.edu/js/phys411.

2 Grading

Grades are based solely on problem sets assigned each week. Completely 90% of the problem sets results in an 'A', 80% a 'B' and 70% a 'C'. Deadlines are assigned by email.