

# AST 2123: Astrodynamics:Kepler & Beyond

Intermediate Newtonian dynamics: description of motion under forces as functions of position, time, velocity. Motion in one and three dimensions, the Kepler problem, gravitation, and the restricted three-body problem.

**Credits:** 3.0

**Prerequisites:**

MAT 1310

MAT 1320

MAT 1330

MAT 1400

MAT 1500

MAT 1310 or MAT 1320 or MAT 1330 or MAT 1400 or MAT 1500

**Program:** Astrophysics and Planetary Science