MECH6309 - Intermediate Dynamics

**MECH 6309** Intermediate Dynamics (3 semester credit hours) This course covers vibrational principles, principle of least action, Lagrange's and Hamilton's equations. Holonomic and nonholonomic constraints will be imposed in dynamics analysis. This course also covers coupled and uncoupled multiple degree-of-freedom linear systems, rigid body dynamics, and gyroscopic effects. Prerequisites: (MECH 2420 or equivalent) and (MECH 2330 or equivalent) and (MECH 4310 or MECH 4340) or equivalent. (3-0) R