

MECH6309 - Intermediate Dynamics

[MECH 6309](#) Intermediate Dynamics (3 semester credit hours) This course covers variational principles, the 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