

# MECH 542. SPACECRAFT DYNAMICS.

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Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

Terms offered: Fall 2025

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## Description

Review of central force motion; Hohmann and other coplanar transfers, rotation of the orbital plane, patched conic method. Orbital perturbations due to the earth's oblateness, solar-lunar attraction, solar radiation pressure and atmospheric drag. Attitude dynamics of a rigid spacecraft; attitude stabilization and control; attitude manoeuvres; large space structures.

- Course description change awaiting University approval
- (3-0-6)
- Prerequisite (Undergraduate): MECH 220. Corequisite: MECH 412 or MECH 419

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