

Calendar

| | Tuesday | | | Thursday | | HW Due |
|----|----------|--|--|----------|---|--------|
| 1 | 01/16/24 | No Class (Late Start) | | 01/18/24 | Introduction and Nomenclature | |
| 2 | 01/23/24 | Coordinate Frames (4.1, 4.4, App. A.4) | | 01/25/24 | Kinematics (4.1, 4.4) | W1 |
| 3 | 01/30/24 | Dynamics and Quadrotors (4.2-4.3,4.5,4.7) | | 02/01/24 | Linearizing Dynamic Systems | P1 |
| 4 | 02/06/24 | No Class (Instructor Travel) | | 02/08/24 | Quadrotor stabilization and control | W2 |
| 5 | 02/13/24 | Quadrotor Guidance | | 02/15/24 | Longitudinal Forces and Moments (2.1-2.3) | W3 |
| 6 | 02/20/24 | Longitudinal Trim and Stability (2.4) | | 02/22/24 | Exam 1 | |
| 7 | 02/27/24 | Longitudinal Stability Derivatives (5.1-5.5) | | 02/29/24 | Longitudinal Linear Model (4.9-4.10) | P2 |
| 8 | 03/05/24 | Longitudinal Modes (6.2) | | 03/07/24 | Mode Approximations (6.3) | W4 |
| 9 | 03/12/24 | Longitudinal Control (7.1-7.7) | | 03/14/24 | Lateral Forces and Moments | W5 |
| 10 | 03/19/24 | Exam 2 | | 03/21/24 | Dihedral Effect (5.6-5.9) | |
| | 03/26/24 | | | 03/28/24 | | |
| 11 | 04/02/24 | Coordinated Turn (3.8-3.13) | | 04/04/24 | Lateral Modes (6.7) | P3 |
| 12 | 04/09/24 | Lateral Modal Approximations (6.8) | | 04/11/24 | Lateral Stability Augmentation (7.8-7.12) | W6 |
| 13 | 04/16/24 | Lateral Guidance and Control (8.1-8.9) | | 04/18/24 | Introduction to Optimal Control (LQR) | W7 |
| 14 | 04/23/24 | Human Factors (1.3-1.5) | | 04/25/24 | Atmosphere and Wind (6.9) | P4 |
| 15 | 04/30/24 | Review | | 05/02/24 | Review | |
| | 05/04/24 | Final Exam 7:30-10pm | | | | |