

Calendar

			Tuesday	Thursday	HW Due
1	01/15/24	01/19/24	Introduction and Nomenclature	Coordinate Frames (4.1, 4.4, App. A.4)	
2	01/22/24	01/26/24	Kinematics (4.1, 4.4)	Dynamics (4.2-4.3,4.5,4.7)	W1
3	01/29/24	02/02/24	Quadrotor Dynamics	Linearizing Dynamic Systems	P1
4	02/05/24	02/09/24	No Class – instructor travel	Quadrotor stabilization and control	W2
5	02/12/24	02/16/24	Quadrotor Guidance	Longitudinal Forces and Moments (2.1-2.3)	P2
6	02/19/24	02/23/24	Longitudinal Trim and Stability (2.4)	Exam 1	
7	02/26/24	03/01/24	Longitudinal Stability Derivatives (5.1-5.5)	Longitudinal Linear Model (4.9-4.10)	W3
8	03/04/24	03/08/24	Longitudinal Modes (6.2)	Mode Approximations (6.3)	P3
9	03/11/24	03/15/24	Longitudinal Control (7.1-7.7)	Lateral Forces and Moments	W4
10	03/18/24	03/22/24	Dihedral Effect (5.6-5.9)	Exam 2	
	03/25/24	03/29/24			
11	04/01/24	04/05/24	Coordinated Turn (3.8-3.13)	Lateral Modes (6.7)	P4
12	04/08/24	04/12/24	Lateral Modal Approximations (6.8)	Lateral Stability Augmentation (7.8-7.12)	W5
13	04/15/24	04/19/24	Lateral Guidance and Control (8.1-8.9)	Introduction to Optimal Control (LQR)	W6
14	04/22/24	04/26/24	Human Factors (1.3-1.5)	Atmosphere and Wind (6.9)	P5
15	04/29/24	05/03/24	Review	Review	

Final Exam