

Week	Month	#	Date	
1	Jan	1	1/11/2017	Nomenclature & Coordinate Systems, Aero Application, A
2			1/16/2017 MLK Day	
		2	1/18/2017	Fluid Dynamics, Propulsion, Airspeed, Wind
3		3	1/23/2017	Level Flight,
		4	1/25/2017	Climb and Dive
4		5	1/30/2017	Min Drag, Range and Endurance
	Feb	6	2/1/2017	Accelerated Flight, Turns, V-n diagrams
5		7	2/6/2017	Takeoff Landing VTOL/STOI
		8	2/8/2017	Mission Simulator John Boyd "Energy Management"
6		9	2/13/2017	Long' Static Stability, Tail contribution, Tail Volume
		10	2/15/2017	Neutral Point, Fuselage Nacelle Interaction
7		11	2/20/2017 EXAM 1	
		12	2/22/2017	Long' Control, Elevator Sizing
8		13	2/27/2017	Acuation, Stick Forces, Trim Tabs, Speed stability
		14	3/1/2017	Flight Control Systems, Flight Tests (NP)
9		15	3/6/2017	Lateral Static Stability, Tail Lateral, Rudder Lock
		16	3/8/2017	Static Roll, Aileron
10			3/13/2017 SPRING BREAK	
			3/15/2017 SPRING BREAK	
11		17	3/20/2017	Newtonian Mechanics, Dynamics of a system of particles
		18	3/22/2017 EXAM 2	
12		19	3/27/2017	Rigid Body Dynamics, Rotational, Inertial Matrix
		20	3/29/2017 Last day to drop	
13		21	4/3/2017	Position and Orientation
		22	4/5/2017	Aircraft Dynamics, Small dist' theory,
14		23	4/10/2017	Stability Derivatives
		24	4/12/2017	Stick Fixed Long', Phugoid, Short Period
15		25	4/17/2017	Stick Fixed Lateral, Spiral, Dutch Roll
		26	4/19/2017	Handling Qualities, Cooper Harper
16		27	4/24/2017	Project
		28	4/26/2017	Review
	Final		May 2nd 11:30-2:00pm	

atmosphere, Wing Geometry

23-Aug Nomenclature

25-Aug Aero and Application to aircraft

28-Sep Long Static Stability DERIVATION

30-Aug Tail contribution, TAIL VOLUME

1-Sep Fuse Nacelle Interaction, Neutral Point

6-Sep Longitudinal Control

8-Sep Sizing Elevator

11-Sep Methods for actuating controls, stick forces

Navigation?

15-Sep Trim tab, speed stability, Lateral Static Stability

18-Sep Tail lateral, Static Roll

20-Sep Directional Control, Roll Control,

22-Sep Roll moment due to aileron

25-Sep Dynamics Review, Particle Kinematics

27-Sep Rotating and Translating Reference Frame

27-Sep Newtonian Mechanics

9-Oct Dynamics of a system of particles

11-Oct Rigid Body Dynamics

13-Oct Rotational, Inertia Matrix,

16-Oct Position and Orientation

18-Oct Aircraft Dynamics, small disturbance theory

23-Oct Stability Derivatives and Coeffs

25-Oct Stick Fixed Longitudinal Motion

27-Oct Long Approx, Phugoid, Short Period

30-Oct Stick Fixed Lateral

1-Nov Spiral, Dutch Roll

3-Nov Handling Qualities, Parallel Axis

8-Nov Cooper Harper

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1	Introduction
2	Airfoils and Wings, Wing Planform Geometry, Numerical Meth
3	Basic Propulsion: Propellers and Jets, Atmosphere, Instrument
4	Straight and Level Flight
5	Straight and Level Flight
6	Glide and Climb
7	Glide and Climb
8	Range and Endurance
9	Range and Endurance
10	Test 1, In-class, Open-book
11	Takeoff and Landing
12	Turns
13	Turns
14	Longitudinal Aerodynamic Buildup, Trim
15	Longitudinal Aerodynamic Buildup, Trim
16	Lateral Aerodynamic Buildup
17	Lateral Aerodynamic Buildup
18	Test 2, In-class, Open-book
19	6 DOF EOM
20	Linearization of EOM/Small Perturbations
21	Aerodynamics, Stability Derivatives
22	Aerodynamics, Stability Derivatives
23	Small Longitudinal Unsteady Motion
24	Small Longitudinal Unsteady Motion
25	Small Lateral Unsteady Motion
26	Small Lateral Unsteady Motion
27	Constraint Diagram, Preliminary Design

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