

Outline for Class 3 (MODIFIED) (Saturday, 10/17/09)

(Phase 1 - 3 Hour Class)

Rev 10-09

FAR/AIM – 25 min		Vann
Maintenance Regulations	FAR 91.407(b), 91.409(a) (b), 91.417(a)1, (b)1, 91.421	
Pilot in Command	FAR 91.3, 91.7	
Aircraft Flight Manual	FAR 91.9(a) (b), Text 2-10, 2-11	
Dropping Objects	FAR 91.15	
Engines		Eric
Fuel/Air Mixture – 15 min	Text 2-19	
Effects of changing altitude without changing mixture		
Fuel Systems – 10 min	Text 2-27, 2-28	
Fuel Contaminants	Text 2-29	
Fuel Color Coding	Text 2-30	
Oil Systems – 15 min	Text 2-32, 2-33	
Wet and Dry Sump		
Functions of Oil in an Aircraft Engine		
***** BREAK ***** 1 hour 05 minutes		
Instruments – 20 min		Vann
Standard Atmosphere	Text 2-49, 2-50	
Air Speed Color Coding	Text 2-52, 2-53, Handout Figure 4	Vann
Vne, Vso, Vs1, Vno		
Aerodynamics		
Control Surfaces – 20 min		
Ailerons	Text 2-5	Dan
Stabilizer		Dan
Vertical	Text 2-5	
Horizontal	Text 2-5, 2-6	
Rudder	Text 2-5, 2-6	Dan
Elevator	Text 2-5, 2-6	Dan

Outline for Class 3 (MODIFIED) (Saturday, 10/17/09)

(Phase 1 - 3 Hour Class)

Airfoil Issues – 20 min		Dan
Camber	Text 3-5, 3-7	
Angle of Incidence	Text 3-10	
Angle of Attack	Text 3-5	
Critical Angle of Attack/Stalls	Text 3-6	
Methods of stalling inboard of wing first	Text 3-10, 3-11	

***** BREAK ***** 1 hour

Flaps – 5 min	Text 3-12, 3-13	Vann
Lateral Stability – 10 min	Text 3-31	Vann
Dihedral	Text 3-31	
Directional Stability – 10 min	Text 3-35	Vann
Drag – 10 min	Text 3-14 thru 3-17	Vann
Parasitic		
Induced		

***** BREAK *****

Airspace – 20 min		Vann
Class C (Use computer display)		
Show on chart	Kansas City Sectional	
Altitude Limits	AIM 3-2-4	
Class C Outer Area	AIM 3-2-4 (c)3. Note 4	

3 hrs + Breaks