

# Outline for Class 4 (MODIFIED) (Saturday, 11/07/09)

(Phase 1 - 3 Hour Class)

Rev 06-09

FAR/AIM – 20 min			Vann
Change of Address	FAR 61.60		
Pilot in Command	FAR 91.103		
Seat Belts	FAR 91.107(a)		
Operating Near Other Aircraft	FAR 91.111		
Right of Way Rules	FAR 91.113		
Airfoil Issues			
Directional Stability – 10 min	Text 3-35		Vann
Engines – 30 min			Bill
Oil Systems – 15 min	Text 2-32, 2-33		
Wet and Dry Sump			
Functions of Oil in an Aircraft Engine			
Fuel Injection	Text 2-21		
Advantages	Text 2-21		
Dual Ignition Systems	Text 2-24		
***** BREAK (1 hr) *****			
Engines (continued) – 15 min			
Abnormal Ignition			
Detonation	Text 2-25		
Pre-ignition	Text 2-26		
Propellers			
Fixed Pitch	Text 2-36, 2-37		
Constant Speed	Text 2-38		

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## Instruments

Standard Lapse Rate – 5 Min	Text 2-51	Bill
Air Speed Nomenclature – 15 min	Text 2-54, 2-55	Bill
IAS		
CAS		
TAS		
Turn Coordinator – 20 min	Text 2-65	Vann

\*\*\*\*\* BREAK (55 min) \*\*\*\*\*

## Aerodynamics

Control Surfaces – 15 min		Eric
Ailerons	Text 2-5	
Stabilizer		
Vertical	Text 2-5	
Horizontal	Text 2-5, 2-6	
Rudder	Text 2-5, 2-6	
Elevator	Text 2-5, 2-6	
Ground Effect – 5 min	Text 3-18	Bill
Lift to Drag Ratio and Glide Speed – 5 min	Text 3-52	Bill
Glide Ratio – 5 min	Text 3-53	Bill

## Airspace – 30 min

Class C (Use computer display)		Vann
Show on chart	Denver Sectional	
Altitude Limits	AIM 3-2-4	
Class C Outer Area	AIM 3-2-4 ( c)3. Note 4	
Class B (Use computer display)		
Show on chart	Denver Sectional	
Altitude Limits	AIM 3-2-3	
Operations in Class B Airspace	FAR 91.131, AIM 3-2-3	

\*\*\*\*\* End of Class (1 hr) \*\*\*\*\*

3 hrs + Breaks