

# Outline for Class 1 (09/17/11)

## (Phase 1 - 3 Hour Class)

Rev 05-11

|  |                   |                                     |                       |
|--|-------------------|-------------------------------------|-----------------------|
| Announcements – 20 min   |                   |                                     | Vann & Bill           |
| Success Presentation   |                   |                                     |                       |
| Introduction – 25 min  |                   |                                     |                       |
| Introduce 24 hour clock and pronunciation for times                        |                   |                                     | Vann                  |
| Category and Class for airman certification<br>(point out how to remember) |                   | FAR 61.5(b)                         | Vann                  |
| Explain Private Pilot Knowledge Test vs Practical Test                     |                   | FAR 61.103(a)(c)(e)(h),<br>61.39(a) | 61.35, 61.37,<br>Luke |
| This course prepares students for the Knowledge Test                       |                   |                                     |                       |
| Airplane Major Parts   | 10 min            | Text 2-1 thru 2-9                   | Luke                  |
| Engines – 20 min   |                   |                                     |                       |
| 4 cycles of a 4 stroke internal combustion engine                          |                   | Text 2-14 thru 2-16                 | Bill                  |
| Intro to carburetors   |                   | Text 2-18 thru 2-19                 | Bill                  |
| Instruments – 40 min   |                   |                                     |                       |
| Introduce only “6 Pack” instruments at this time(see poster)               |                   | Text 2-47                           | Tyler                 |
| Pitot/Static System - Instruments  |                   | Text 2-48 thru 2-52, 2-55, 2-61     | Tyler                 |
| Vacuum   |                   | Text 2-63 thru 2-64, 2-67, 2-68     | Vann                  |
| Vacuum sources   |                   | Text 2-64                           | Vann                  |
| Aerodynamics – 40 min  |                   |                                     |                       |
| Axes of airplane   |                   | Text 3-23 thru 3-25                 | Andy                  |
| Forces acting on airplane  |                   | Text 3-2, 3-3                       | Andy                  |
| Induced Lift   |                   | Text 3-4 thru 3-6                   | Bill                  |
| Bernoulli Principle  |                   |                                     |                       |
| Dynamic Lift   |                   | Text 3-4 thru 3-6                   | Bill                  |
| Newton’s 3 <sup>rd</sup> Law   |                   |                                     |                       |
| Airspace – 20 min  |                   |                                     |                       |
| Class G  | Slide 2 & 3       | AIM 3-3-1                           | Vann                  |
| Victor Airways (describe dimensions, then move to Class E)                 |                   | See Sectional                       | Vann                  |
| Class E Intro  | Slide 4, 5, 6 & 7 | FAR 71.71, AIM 3-2-6                | Vann                  |
| Speed Limit  |                   |                                     |                       |
| Below 10,000 feet MSL  |                   | FAR 91.117(a)                       | Vann                  |
| 3 hrs + Breaks   |                   |                                     |                       |