

COOKING LAKE AVIATION ACADEMY
Private Ground School Course Schedule and Outline of Reading
Wednesdays, 6:00 – 9:00 pm
6 May – 12 August 2009

Class	Date	Topics
1	6 May	Introduction, Orientation, Aviation Law - Aviation licenses - Aviation documents - Canadian Aviation Regulations (CARs) Read: <i>From the Ground Up (FTGU)</i> : pp. 107 – 119 <i>Flight Training Manual (FTM)</i> : pp. 23 - 25
2	13 May	Theory of Flight 1 - Forces acting on an aircraft - Airfoils, aerodynamics - Design of the wing - Video: <i>STOL</i> - Video: <i>Flight Prep 1</i> Read: <i>FTGU</i> , pp. 9 – 20; 21 – 39 <i>FTM</i> , pp. 2 - 15
3	20 May	Theory of Flight 2 - Load factors - Stability - Propellers - Video: <i>Flight Prep 2</i> Read: <i>Theory of Flight 2</i> <i>FTGU</i> , pp. 31 – 32; 72 – 75
4	27 May	Airframes and Engines - Airframes - Carburetion - Electrical system Read: <i>FTGU</i> , pp. 51 – 88 <i>Chapter 5, Airframes and Engines</i> (handout) <i>FTM</i> , pp. 19 - 22
5	3 June	Flight instruments and Air Law - Pitot-static systems

- Gyroscopes
 - Flight operations
 - Video: *Flight Prep 4*
 - Read: *FTGU*, pp. 39 – 50
Flight Operations 1 (handout)
FTM, pp. 34 - 39
- 6 10 June **Meteorology 1**
- Earth's atmosphere
 - Cloud types
- Read: *FTGU*, pp. 123 - 135
- 7 17 June **Meteorology 2**
- Meteorology aspects of altimetry
 - Moisture
 - Air masses
- Read: *FTGU*, pp. 135 – 148
- 8 24 June **Meteorology 3**
- Aircraft icing
 - Thunderstorms
 - Fronts
- Read: *FTGU*, pp. 148 – 158
FTM, pp. 29 - 30
- 9 2 July **Meteorology 4**
- Weather reports and forecasts (TAFs, METARs, GFAs)
 - Meteorological services available to pilots
- Read: *FTGU*, pp. 158 - 172
- 10 8 July **Flight Operations**
- Airmanship
 - Performance charts
 - Weight and balance
- Read: *FTGU*, pp. 91 – 106; 217 – 226; 259 – 279; 281 – 302
FTM, pp. 16 – 18; 26 – 28; 40 – 44; 45 – 47; 91 - 106
- 11 15 July **Navigation and Flight Planning 1**
- *Canada Flight Supplement (CFS)*
 - Time, latitude & longitude
 - Maps & charts
 - Compass reading

- Read: *FTGU*, pp. 175 – 190
FTM, pp. 206 - 209
- 12 22 July **Navigation and Flight Planning 2**
 - Navigation computers, E6B
 - Triangle of velocities
 Read: *FTGU*, pp. 190 - 206
- 13 29 July **Navigation and Flight Planning 3**
 - Pre-flight preparation
 - Aviation performance charts
 Read: *FTGU*, pp. 279 – 281
- 14 5 August **Navigation and Flight Planning 4**
 - Radio and electronic theory
 - VOR, ADF, GPS
 - Radar
 - Video: *Flight Prep 9*
 Read: *FTGU*, pp. 207 – 217; 227 – 255
- 15 12 August **Pilot Decision-Making, & Conclusion**
 - Human factors
 Read: *FTGU*, pp. 303 – 319
 FTM, pp. 202 – 205