

## **Junior Ground School Syllabus 2017-2018**

Course information: Ground School is the first step towards any exciting aviation career or perhaps a cool hobby. All pilots must have a thorough understanding of the theory and rules which allow them to fly in order to be safe and professional. Compared to the Senior Ground School Course, this course is an introduction that aims to ramp cadets into the Senior Ground School Program. Though slimmer in content, Junior Ground School is still a fast paced learning experience and it is open to all cadets who would like to participate. This course is no guarantee that the candidate will receive a scholarship course, that is determined by merit alone. This course will cover some of the basic knowledge required to take the Glider and/or Power Pilot Scholarship Exam. Below are some of the tentative topics that will be covered, be aware that this is a living document and is subject to change up to instructor discretion.

Should you be interested, the following link provides information about how to apply to the Glider or Power Pilot Scholarship Courses, as well as other specialty scholarship courses offered by the Royal Canadian Air Cadet Program:

<https://bc-aircadetleague.com/wp-content/uploads/2017/11/2018-AIR-CADET-NSTC-BOOKLET-FINALRVSD-1108.pdf>

Contact information: Direct any questions to: 583groundschool@gmail.com

Textbook: The textbook for this course is **recommended**, but not required, as all of the information covered by the course is in the book.

From the Ground Up by Sandy A. F. Macdonald (either edition is equivalent)

28th ed

ISBN-10: 1560274522

ISBN-13: 978-1560274520

29th ed

ISBN 978-0-9730036-3-5

Important dates and times:

Class times: Tuesdays, 1800-1930hrs

Location: LHQ (583 Coronation Squadron Office)

Classes start: Tuesday January 16th 2018

Spring Break (no class): Tuesdays 13th and 20th of March 2018

Classes end: Tuesday April 3rd 2018

Exam: Tuesday April 24th 2018

Course outline:

1. Aircraft Operations (Jan 16th-Feb 6th): Parts of Chapters 1 and 2
  - a. Jan 16th: intro night; Assignment 1
  - b. Jan 23rd: The airplane, Control Surfaces, Aircraft Categories
  - c. Jan 30th: Theory of Flight
  - d. Feb 6th: Flight Instruments; Assignment 2
2. Meteorology (Feb 13th - Mar 6th): Chapter 6
  - a. Feb13th: Intro to Met, science concepts
  - b. Feb 20th: The atmosphere, clouds, cloud formation, pressure systems
  - c. Feb 27th: Weather fronts, precipitation
  - d. Mar 6th: Thunderstorms, Turbulence, Weather forecasting tools; assignment 3
3. Air law (Mar 27th): Chapter 4 and 5
  - a. The aerodrome, the circuit, light signals
  - b. Right of way and rules of the air
4. Navigation (Apr 3rd): Chapter 7
  - a. Lat & Long, heading and bearing, the Earth's magnetism, Speed and distance, types of maps; assignment 4
5. Study break (Apr 10-17th)
6. Final exam April 24th