



## Private Pilot Licence and Recreational Pilot Permit

Resources:

FGU = From the Ground Up, **29<sup>th</sup> Edition**

FTM = Flight Training Manual, 4<sup>th</sup> Edition Revised

POH = Pilot Operating Handbook, C-172

### Licensing, Airframes and Pre-flight

**Tuesday October 17<sup>th</sup>, 2017**

Introduction

Private Pilot Privileges

Licensing Requirements

Definitions

FGU Glossary

Aircraft Components

1.1

Landing Gear or Undercarriage

1.1

Brakes

1.1

Control Systems and Materials

1.2

Preparation for Flight

FTM 34 – 39

POH Section 7

### Theory of Flight

**Tuesday October 24<sup>th</sup>, 2017**

Forces acting on an Aeroplane

FGU 2.1

How lift is created

2.1

Weight, Thrust and Drag

2.1

Wake Turbulence

2.1

Ground Effect

2.1

Wing Design

2.1.2

Flaps

2.1.2

Axes of an Aeroplane

2.1.3

Stability

2.1.4

Flight Performance Factors

2.1.5

Loads

2.1.5

Load Factors

FTM 14

Basic Principles of Flight

FTM 3 – 15

## Aero Engines

**Tuesday November 7<sup>th</sup>, 2017**

Engines	FGU	Ch. 3
Cooling and Lubrication		3.1.10
Fuel System		3.2
Carburetor		3.3
Fuel Injection (Turbo and Super Charge)		3.3
Exhaust Systems		3.4
Ignition Systems		3.5
Electrical Systems		3.7
Propellers		3.8
Engine Instruments		3.9
Engine Operation		3.10

## Flight Instruments 1

**Tuesday November 14<sup>th</sup>, 2017**

Airspeed Limitations	FGU	2.1.6
The Pitot/Static System		2.2

## Flight Instruments 2 & Weight and Balance

**Tuesday November 21<sup>st</sup>, 2017**

Gyro Instruments	FGU	2.2.3
Magnetic Compass		7.2.2
Weight and Balance		10.2
	POH	Section 6

## Performance

**Tuesday November 28<sup>th</sup>, 2017**

Aeroplane Performance	FGU	10.3
	POH	Section 5

**Aerodromes & Review night**  
**Tuesday December 5<sup>th</sup>, 2017**

Aerodromes	FGU	4.0 – 4.1.8
Aerodrome Traffic Procedures		4.1.8 - 4.2

**Air Law**  
**Tuesday December 12<sup>th</sup>, 2017**

Canadian Airspace	FGU	4.2
Airspace Classifications (Classes A – G)		4.2.6
Rules of the Air		5.0
Air Traffic Rules and Procedures		5.2

**Radio Procedures and Radio Aids**  
**Tuesday December 19<sup>th</sup>, 2017**

Radio Theory	FGU	8.0
Communication Equipment		8.2
Communication Services		8.3
Radio Procedures		8.4
Radar and Radar Facilities		9.10
Emergency Locator Transmitter		9.11
Radio Aids		[9.0-9.1.8], [9.2.1], [9.5-9.5.3]
	FTM	163 - 177

**Meteorology 1**  
**Tuesday January 2<sup>nd</sup>, 2018**

The Atmosphere / Clouds	FGU	6.0-6.3
Humidity, Temperature and Stability		6.5-6.5.3
Heating the Atmosphere		6.5-6.5.3
Cooling the Atmosphere		6.5-6.5.3
Visibility		6.8.4
Stable and Unstable Air		6.5.3
Precipitation and Fog		6.8

**Meteorology 2**  
**Tuesday January 9<sup>th</sup>, 2018**

Atmospheric Pressure and Winds	FGU 6.3-6.5
Air Masses	6.6
Fronts	6.7
Icing	6.10

**Meteorology 3**  
**Tuesday January 16<sup>th</sup>, 2018**

Thunderstorms	FGU 6.9
Weather Information	6.14

**Flight Computer**  
**Tuesday January 23<sup>rd</sup>, 2018**

Flight Computer Operations	Instruction Manual
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**Navigation 1**  
**Tuesday January 30<sup>th</sup>, 2018**

Latitude and Longitude	FGU 7.0-7.4
Aeronautical Charts	7.4
Plotting Instruments	7.4.5
Drift Correction	7.4.7
Flight Plan	5.2.5

**Navigation 2**  
**Tuesday February 6<sup>th</sup>, 2018**

Pilot Navigation	FGU 7.4.6
Pre-Flight Planning	10.5-10.5.2

**Navigation 3**  
**Tuesday February 13<sup>th</sup>, 2018**

**Human Factors & Pilot Decision Making**  
**Tuesday February 20<sup>th</sup>, 2018**

Human Factors  
PDM Process  
Scenarios

FGU 11.0 - all

**Group Open Book Exam Night 1**  
**Tuesday February 27<sup>th</sup>, 2018**

On this night we will be going through a sample exam together containing 50 multiple choice questions on **Air Law and Meteorology**. This open book forum will give us a chance to ask lots of questions and have open and thought provoking discussion. This will also be a chance for students to ask questions based on the two topics of the night so come with your questions in hand.

**Group Open Book Exam Night 2**  
**Tuesday March 6<sup>th</sup>, 2018**

On this night we will be going through a sample exam together containing 50 multiple choice questions on **Navigation and General Knowledge**. This open book forum will give us a chance to ask lots of questions and have open and thought provoking discussion. This will also be a chance for students to ask questions based on the two topics of the night so come with your questions in hand.