



## 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 April 4<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 April 11<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 April 18<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 April 25<sup>th</sup>, 2017**

Airspeed Limitations	FGU	2.1.6
The Pitot/Static System		2.2

## Flight Instruments 2 & Weight and Balance

**Tuesday May 2<sup>nd</sup>, 2017**

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

## Performance

**Tuesday May 9<sup>th</sup>, 2017**

Aeroplane Performance	FGU	10.3
	POH	Section 5

## Aerodromes & Review night

**Tuesday May 16<sup>th</sup>, 2017**

Aerodromes	FGU	4.0 – 4.1.8
Aerodrome Traffic Procedures		4.1.8 - 4.2

## Air Law

**Tuesday May 23<sup>rd</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 May 30<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 June 6<sup>th</sup>, 2017**

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 June 13<sup>th</sup>, 2017**

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

**Meteorology 3**  
**Tuesday June 20<sup>th</sup>, 2017**

Thunderstorms	FGU 6.9
Weather Information	6.14

**Flight Computer**  
**Tuesday June 27<sup>th</sup>, 2017**

Flight Computer Operations	Instruction Manual
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**Navigation 1**  
**Tuesday July 4<sup>th</sup>, 2017**

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 July 11<sup>th</sup>, 2017**

Pilot Navigation	FGU 7.4.6
Pre-Flight Planning	10.5-10.5.2

### Navigation 3

Tuesday July 18<sup>th</sup>, 2017

### Human Factors & Pilot Decision Making

Tuesday July 25<sup>th</sup>, 2017

Human Factors  
PDM Process  
Scenarios

FGU 11.0 - all

### Group Open Book Exam Night 1

Tuesday August 1<sup>st</sup>, 2017

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 August 8<sup>th</sup>, 2017

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.