



## 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 16<sup>th</sup>, 2018**

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 23<sup>rd</sup>, 2018**

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 October 30<sup>th</sup>, 2018**

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 6<sup>th</sup>, 2018**

Airspeed Limitations	FGU	2.1.6
The Pitot/Static System		2.2

## Flight Instruments 2 & Weight and Balance

**Tuesday November 13<sup>th</sup>, 2018**

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

## Performance

**Tuesday November 20<sup>th</sup>, 2018**

Aeroplane Performance	FGU	10.3
	POH	Section 5

## Aerodromes & Review night

**Tuesday November 27<sup>th</sup>, 2018**

Aerodromes	FGU	4.0 – 4.1.8
Aerodrome Traffic Procedures		4.1.8 - 4.2

**Air Law**

**Tuesday December 4<sup>th</sup>, 2018**

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 11<sup>th</sup>, 2018**

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 December 18<sup>th</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

**TWO WEEK BREAK FOR CHRISTMAS AND NEW YEARS**

**Meteorology 2**

**Tuesday January 8<sup>th</sup>, 2019**

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

### Meteorology 3

**Tuesday January 15<sup>th</sup>, 2019**

Thunderstorms	FGU 6.9
Weather Information	6.14

### Flight Computer

**Tuesday January 22<sup>nd</sup>, 2019**

Flight Computer Operations	Instruction Manual
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### Navigation 1

**Tuesday January 29<sup>th</sup>, 2019**

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 5<sup>th</sup>, 2019**

Pilot Navigation	FGU 7.4.6
Pre-Flight Planning	10.5-10.5.2

### Navigation 3

**Tuesday February 12<sup>th</sup>, 2019**

### Human Factors & Pilot Decision Making

**Tuesday February 19<sup>th</sup>, 2019**

Human Factors	FGU 11.0 - all
PDM Process	
Scenarios	

## EXAM PREP

### Group Open Book Exam Night 1

**Tuesday February 26<sup>th</sup>, 2019**

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 5<sup>th</sup>, 2019**

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.