



## 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 M

### Licensing, Airframes and Pre-flight

**Wednesday October 2<sup>nd</sup>, 2019**

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

**Wednesday October 9<sup>th</sup>, 2019**

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 Principals of Flight	FTM	3 – 15

## Aero Engines

**Wednesday October 16<sup>th</sup>, 2019**

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

**Wednesday October 23<sup>rd</sup>, 2019**

Airspeed Limitations	FGU	2.1.6
The Pitot/Static System		2.2

## Flight Instruments 2 & Weight and Balance

**Wednesday October 30<sup>th</sup>, 2019**

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

## Performance

**Wednesday November 6<sup>th</sup>, 2019**

Aeroplane Performance	FGU	10.3
	POH	Section 5

## Aerodromes & Review night

**Wednesday November 13<sup>th</sup>, 2019**

Aerodromes	FGU	4.0 – 4.1.8
Aerodrome Traffic Procedures		4.1.8 - 4.2

## Air Law

**Wednesday November 20<sup>th</sup>, 2019**

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

**Wednesday November 27<sup>th</sup>, 2019**

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

**Wednesday December 4<sup>th</sup>, 2019**

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

**Wednesday December 11<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**  
**Wednesday December 18<sup>th</sup>, 2019**

Thunderstorms	FGU 6.9
Weather Information	6.14

**Two Week Break for Christmas and New Years**

**Flight Computer**  
**Wednesday January 8<sup>th</sup>, 2020**

Flight Computer Operations	Instruction Manual
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**Navigation 1**  
**Wednesday January 15<sup>th</sup>, 2020**

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**  
**Wednesday January 22<sup>nd</sup>, 2020**

Pilot Navigation	FGU 7.4.6
Pre-Flight Planning	10.5-10.5.2

**Navigation 3**  
**Wednesday January 29<sup>th</sup>, 2020**

**Human Factors & Pilot Decision Making**  
**Wednesday February 5<sup>th</sup>, 2020**

Human Factors  
PDM Process  
Scenarios

FGU 11.0 - all

**EXAM PREP**

**Group Open Book Exam Night 1**  
**Wednesday February 12<sup>th</sup>, 2020**

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**  
**Wednesday February 19<sup>th</sup>, 2020**

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.