

Spring 2021 Private Pilot Ground School

Course Schedule and Required Reading

Tuesdays and Thursdays, 6:30 – 9:30 pm

Classroom, Cooking Lake Aviation

March 9th, 2021 to May 6th, 2021

Class	Date	Topics and required reading
1	March 9 th , 2021	<p><i>Air Law 1 – Canadian Aviation regulations</i></p> <ul style="list-style-type: none"> • Introductions • PPL requirements • Aerodromes • Canadian Air Regulations (CAR's) <ul style="list-style-type: none"> ○ Aircraft documents <p><i>FTGU: Pages 89-98, 107</i> <i>Sharper Edge: Pages 1-6, 30-31, 36-37</i></p>
2	March 11 th , 2021	<p><i>Navigation 1</i></p> <ul style="list-style-type: none"> • Latitude and longitude • The earths magnetism • Units of speed and distance <p>Aeronautical charts</p> <p><i>FTGU: Pages 177-192</i> <i>Sharper Edge: Pages 123-125</i></p>
3	March 16 th , 2021	<p><i>Air law 2 – Canadian Aviation regulations</i></p> <ul style="list-style-type: none"> • <i>CAR's continued</i> • <i>The Canadian domestic airspace</i> <p><i>FTGU: Pages 98-105, 108-110</i> <i>Sharper Edge: Pages 8-28</i></p>

4	March 18 th , 2021	<p>Navigation 2</p> <ul style="list-style-type: none"> • Navigation problems and flight planning FTGU: Pages 192-202 Sharper Edge: Pages 125-128
5	March 23 rd , 2021	<p>Air Law 3 – Canadian Aviation regulations</p> <ul style="list-style-type: none"> • Air traffic rules and procedures • NOTAM's <p><i>FTGU: Pages 110-120</i> <i>FTGU: Questions 1-7 (page 333), questions 105-140 (page 341-343), Questions 188-189 (page 347)</i> <i>Sharper Edge: Pages 7 and 29</i> <i>Sharper Edge: Questions 1-4, 6-20, 22-100 (page 39-57)</i></p>
6	March 25 th 2021	<p>Navigation 3</p> <ul style="list-style-type: none"> • Flight planning continued • Radio and Electronic theory <p><i>FTGU: Pages 209-236, 241-245</i> <i>FTGU: Questions 87-104 (page 339-341), question 141-165 (page 343-345), Questions 174-176 (page 436)</i> <i>Sharper Edge: Pages 132-333</i> <i>Sharper Edge: Questions 1-40, 48-52, 55-87 (page 145-167)</i></p>
7	March 30 th , 2021	<p>Air Law 4 – Canadian Air regulations</p> <ul style="list-style-type: none"> • Review and Air law Exam
8	April 1 st , 2021	<p>Navigation 4</p> <ul style="list-style-type: none"> • Radio and Electronic theory continued • Review and Navigation exam
9	April 6 th , 2021	<p>General knowledge 1 – Airframes, engines, and systems</p> <ul style="list-style-type: none"> • Airframes • Piston Engines • Fuel systems • Ignition systems • Oil systems • The Carburetor and fuel injection • Electrical systems • Superchargers vs turbochargers <p><i>FTGU: Pages 3-11, 47-81</i></p>

		<p><i>FTGU: Questions 13, 36-55 (page 335-337)</i> <i>Sharper Edge: Page 205-212</i> <i>Sharper Edge Questions: 2-5, 15-16, 43, 46, 51, 62, 73, 76, 87, 89, 92, 98 (page 233-249)</i></p>
10	April 8 th , 2021	<p>Meteorology 1</p> <ul style="list-style-type: none"> • The earths atmosphere • Clouds • Atmospheric stability • Dry and wet adiabatic lapse rates • Types of Lifting agents • Calculating cloud base and freezing level • Temperature and how the atmosphere is heated • Turbulence • Pressure systems <p><i>FTGU: page 123-130, 136-140, 158-159</i> <i>Sharper edge: 59-69, 84-87</i></p>
11	April 13 th , 2021	<p>General Knowledge 2 – Aerodynamics and Theory of flight</p> <ul style="list-style-type: none"> • Design Of The Wing • Principles Of Flight • Airfoils • Forces Acting On An Airfoil • Lift, Drag, Wingtip Vortices & Ground Effect • Stability • Load Factor • Maneuvering speed • Rate and radius of turn • Propellers & Forces • Flight Controls • Relationship of Speed To Angle Of Attack <p><i>FTGU: Pages 12-32</i> <i>FTGU: Questions 9-30 (page 333-335)</i></p>
12	April 15 th , 2021	<p>Meteorology 2</p> <ul style="list-style-type: none"> • Wind Terminology • Sea Breeze vs Land Breeze

		<ul style="list-style-type: none"> • Mountain Waves • Thunderstorms & Wind Shear • Weather Radar • Fog • Icing • Air Masses & Fronts <p><i>FTGU: Pages 130-136, 140-158</i> <i>Sharper Edge: Pages 70-83</i></p>
13	April 20 th , 2021	<p>General knowledge 3 - Flight instruments and flight operations</p> <ul style="list-style-type: none"> • Pitot Static System & Associated Instruments • Earths Magnetism & Magnetic Compass • Gyroscopic Instruments • Pitch, Power & Bank Instruments • Winter Operations • Flight Near Thunderstorms • Low Level Windshear • Crosswind Charts • Canadian Runway Friction Index (CFRI) • Wake Turbulence • Wheelbarrowing • Position of flight controls while taxiing in wind <p><i>FTGU: Page 33-44, 263-268, 281-283, 293-294</i> <i>FTGU: Questions 33-34, 190-194 (page 335-348)</i> <i>Sharper Edge: Pages 216-225</i></p>
14	April 22 nd , 2021	<p>Meteorology 3</p> <ul style="list-style-type: none"> • Weather reports
15	April 27 th , 2021	<p>General Knowledge 4 -Flight operations continued</p> <ul style="list-style-type: none"> • Weight & Balance Calculations & Conversion Factors • Aeroplane performance • V speeds • Effects of changing winds on approach angle • Effect of changing winds on angle of climb and rate of climb • Hydroplaning

		<ul style="list-style-type: none"> • Take Off Blast Areas • Human Factors & Pilot Decision Making <ul style="list-style-type: none"> ○ Aviation Physiology ○ The Pilot & The Operating Environment ○ Aviation Psychology <p><i>FTGU: Page 263-297, 309-328</i> <i>Questions FTGU: 178-187, 190-203 (Page 346-348)</i> <i>Sharper Edge: Pages 129-131, 142-143, 226-232</i> <i>Sharper Edge: Questions 88-91 (page 167-168), 93-96 (page 169-170), 17, 19, 26-35 (page 237-239), 63-66 (page 243-244)</i></p>
16	April 29 th , 2021	<p>Meteorology 4</p> <ul style="list-style-type: none"> • Review and Meteorology exam
17	May 4 th , 2021	<p>General Knowledge 5</p> <ul style="list-style-type: none"> • Review and General Knowledge exam
18	May 6 th , 2021	<p>Final Exam</p>