

AIR 100 Basic Flight Theory*4 credits, 60 hours*

This theory-based course introduces aviation subjects in four different categories: Air Law, General Aeronautics Knowledge, Meteorology, and Navigation. This course will prepare students to complete the Transport Canada Private Pilot License Written Examination (PPAER) upon completion.

Prerequisites: Transport Canada Category 1 Medical

Instructor

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Office Hours

Mon 9:00 – 17:00
Tue 9:00 – 17:00
Wed 9:00 – 17:00
Thu 9:00 – 17:00
Fri 9:00 – 17:00

Hours of Instruction

Monday 15:00 – 17:00
Wednesday 15:00 – 17:00

Required Resources

Aeronautical Information Manual (TP 1471E), Transport Canada, Latest edition

Cessna 172 Pilots Guide, ASA, Latest edition

From the Ground Up, “Sandy” A. F. MacDonald, 29th Edition

VFR Navigation Chart (VNC) – Lake Athabasca(AIR 5023), Nav Canada 19th Edition

VFR Navigation Chart (VNC) – Edmonton (AIR5015), Nav Canada, 32nd Edition

Other Supplies– Manual E6B or Electronic CX-3 Flight Computer, ICAO Ruler and Plotter

Course Outcomes

Upon successful completion of the course, the student shall be able to:

- Satisfy Transport Canada's Private Pilot License (PPL) Groundschool requirements.
- Acquire a minimum pass of C- (60%) on the Private Pilot License – Aeroplane (PPAER) written exam.
- Interpret Canadian Aviation regulations.
- Identify different airplane components, flight controls, engines and systems.
- Perform calculations for accurate flight planning.
- Interpret aviation weather using various weather observation/forecast products.

Evaluation

Clearly outline what students must do in order to pass or complete the course.

Assignments 10%

Discussions 10%

Quizzes 10%

Midterm Exam 20%

Final Exam 50%

Total 100%

NOTE: Examination

- PPL written examination must be completed at McMurray Aviation. In the event of an unsuccessful pass on all required examination sections, students will be required to pay McMurray Aviation directly for supplemental examinations costs (costs determined on a case-by-case basis).

A grade of C- is required for passing, progression or transfer.

Grading System

Descriptor	Alpha Grade	4.0 Scale	Percent
Excellent	A+	4.0	> 93.9
	A	4.0	87 – 93.9
	A-	3.7	80 – 86.9
Good	B+	3.3	77 – 79.9
	B	3.0	74 – 76.9
	B-	2.7	70 – 73.9
Satisfactory	C+	2.3	67 – 69.9
	C	2.0	64 – 66.9
	Progression	C-	1.7
Poor	D+	1.3	57 – 59.9
Minimum Pass	D	1.0	50 – 56.9
Failure	F	0.0	< 50

Proposed Schedule of Topics

Include a proposed schedule.

- September 21 2020 General - Airframes; Weight & Balance
- September 23, 2020 General – Theory of Flight
- September 28, 2020 General- Theory of Flight 2
- September 30, 2020 General - Flight Instruments 1
- October 5, 2020 General - Flight instruments 2
- October 7, 2020 General - Aircraft Engines

October 12, 2020	General - Aircraft Systems
October 14, 2020	General - Flight Operations; Human Factors
October 19, 2020	General - Pilot Decision Making
October 21, 2020	Air Law - Canadian Aviation Regulations 1
October 26, 2020	Air Law - Canadian Aviation Regulations 2
October 28, 2020	Air Law - Canadian Aviation Regulations 3
November 2, 2020	Air Law - Canadian Aviation Regulations 4
November 4, 2020	Meteorology - Atmosphere, Pressure, Winds
November 9, 2020	Meteorology - Temperature, Moisture, Visibility
November 11, 2020	Meteorology - Air Masses, Fronts
November 16, 2020	Meteorology - Thunderstorms, Icing, Precipitation
November 18, 2020	Meteorology - Reading Weather Products
November 23, 2020	Meteorology - Reading Weather Products (Wrap Up)
November 25, 2020	Navigation - Introduction; Maps & CFS
November 30, 2020	Navigation - E6B Flight Computer
December 2, 2020	Navigation - Plan a X-Country I
December 7, 2020	Navigation - Plan a X-Country II
December 9, 2020	Radio Navigation
	ATC Tour.

Please Note:

Date and time allotted to each topic is subject to change.

Performance Requirements

Student Responsibilities

It is your responsibility as a student to contact the Office of the Registrar to complete the forms for Withdrawal or Change of Registration, and any other forms. Please refer to the list of important dates as noted in the Academic Schedule in the Keyano College credit calendar.

More specific details are found in the Student Rights and Student Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Student Code of Conduct Policies.

Student Attendance

Class attendance is useful for two reasons. First, class attendance maximizes a student's learning experience. Second, attending class is a good way to keep informed of matters relating to the administration of the course (e.g., the timing of assignments and exams). Ultimately, you are responsible for your own learning and performance in this course.

It is the responsibility of each student to be prepared for all classes. Students who miss classes are responsible for the material covered in those classes and for ensuring that they are prepared for the next class, including the completion of any assignments and / or notes that may be due.

Academic Misconduct

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:

- Plagiarism or the submission of another person's work as one's own
- The use of unauthorized aids in assignments or examinations (cheating)
- Collusion or the unauthorized collaboration with others in preparing work
- The deliberate misrepresentation of qualifications

- The willful distortion of results or data
- Substitution in an examination by another person
- Handing in the same unchanged work as submitted for another assignment
- Breach of confidentiality.

The consequences for academic misconduct range from a verbal reprimand to expulsion from the College. More specific descriptions and details are found in the Student Rights and Student Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Student Code of Conduct Policies.

In order to ensure your understanding of the concept of plagiarism, you must successfully complete the online tutorial found on ilearn.keyano.ca. Then print the certificate, sign it, and show it to each of your instructors. Your course work will not be graded until you show this signed certificate.

Specialized Supports

The Student Academic Support Services (SASS) department: Accessibility Services, Skill Centre, Wellness Services and Student Life Department work together to support student success at Keyano College.

Accessibility Services (CC167) supports student success through group and individualized instruction of learning, study and test taking strategies, and adaptive technologies. Students with documented disabilities, or who suspect a disability, can meet with the Learning Strategists to discuss accommodation of the learning barriers that they may be experiencing. Students who have accessed accommodations in the past are encouraged to visit our office at their earliest opportunity to discuss the availability of accommodations in their current courses. Individual appointments can be made by calling 780-791-8934.

Skill Centre (CC119) provides a learning space where students can gather to share ideas, collaborate on projects and get new perspectives on learning from our tutorial staff. Students visiting the centre have access to one-to-one or group tutoring, facilitated study groups, and assistance in academic writing. The Skill Centre's Peer Tutor program provides paid employment opportunities for students who have demonstrated academic success and want to share what they have learned. Tutoring is available free to any students registered at Keyano College on a drop in basis, from 8:30 am to 5:00 pm Monday through Friday. Additional evening hours are subject to tutor availability and are posted in the Skill Centre.

Wellness Services (CC260) offers a caring, inclusive, and respectful environment where students can access free group and individual support to meet academic and life challenges. Mental Health Coordinators offer a safe and confidential environment to seek help with personal concerns. The Mindfulness Room in CC260 is available as a quiet space for students to relax during regular office hours. Wellness Service welcomes students to participate in any of the group sessions offered throughout the academic year addressing such topics as Mindfulness and Test Anxiety. Individual appointments can be made by calling 780-791-8934.

Student Life Department (CC210) is a place for students to go when they don't know who else can answer their questions. The staff will help students navigate barriers to success and if they don't know the answer, they will find it out. Student success is directly affected by how connected a student feels to their college. The student life department is there to help students get connected.

Please watch your Keyano email for workshop announcements from our Student Academic Support Services team.