

AIR 215 Operational Flying and Safety Awareness

3 credits, 45 hours

This theory based course focuses on Crew Resource Management (CRM), Pilot Decision Making (PDM), Human Factors, Safety Management Systems (SMS), Emergency Survival Skills and handling of Dangerous Goods.

Prerequisites: Transport Canada Category 1 Medical; AIR 202 Commercial Flight Lab

Instructors

Cody Brace,

McMurray Aviation

531 Snow Eagle Drive

Fort McMurray AB T9H 0H8

780-791-2182

cbrace@mcmurrayaviation.com

rmarno@mcmurrayaviation.com

Bcooper@mcmurrayaviation.com

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

TBD – Students Availability

Required Resources

Transport Canada Human Factors for Aviation Basic Handbook (TP 12863E), Transport Canada, Latest edition

Transport Canada Human Factors for Aviation Advanced Handbook, Transport Canada, Latest edition

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

- Apply effective decision making skills when analyzing situations to ensure safe operations
- Recognize and mitigate hazardous attitudes and increase awareness of personal limitations
- Adopt strategies for establishing and maintaining respectful relationships with Indigenous and Multicultural populations
- Ensure safety compliance using Safety Management Systems (SMS) including reporting and risk mitigation
- Identify necessary emergency supplies and strategies required for survival, depending on geographical locations
- Implement a strategy for safe and effective handling of dangerous goods, while adhering to the Dangerous Goods safety standards

Evaluation

Preparation for Class 10%

Discussions 10%

Quizzes 20 %

Assignments 40%

Final Exam 20%

Total 100%

NOTE: Proficiency & Examination:

If a student requires additional ground training to achieve the required proficiency, costs incurred are to be paid directly to McMurray Aviation, as this will be determined on a case-by-case basis.

A grade of B- is required for passing, progression and 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

Satisfactory	B-	2.7	70 – 73.9
	C+	2.3	67 – 69.9
Failure	C	2.0	64 – 66.9
	C-	1.7	60 – 63.9
	D+	1.3	57 – 59.9
Failure	D	1.0	50 – 56.9
	F	0.0	< 50

Proposed Schedule of Topics

March 17, 2022	Intro to Human Factors - Part 1
March 22, 2022	Intro to Human Factors - Part 2
March 24, 2022	Pilot Performance
March 29, 2022	Pilot Decision Making
March 31, 2022	Learning Factors
April 5, 2022	Components of the Body
April 7, 2022	Environmental Effects
April 12, 2022	Safety Management
April 14, 2022	Hazardous Attitudes
April 19, 2022	Disorientation and Illusions
April 21, 2022	Crew Resource Management – Part 1
April 26, 2022	Crew Resource Management – Part 2
April 28, 2022	Situational Awareness
May 3, 2022	Practical Application & Survival Skills

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.