



**I. COURSE DESCRIPTION:**

This course reviews the theory and the meteorological services for pilots learned in first year meteorology, and explores more advanced theory in preparation for writing the Transport Canada Commercial Written Exam (CPAER)

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

Upon successful completion of this course, the student will demonstrate the ability to:

1. Understand and apply Meteorology theory as it applies to Commercial Pilots

Potential Elements of the Performance:

Review of material taken in 1<sup>st</sup> year

2. Interpret and apply weather reports and forecasts

Potential Elements of the Performance:

Review Meteorological information available to pilots

3. Explore advanced Meteorological Theory

Potential Elements of the Performance:

High level meteorology, complex lows, upper fronts

4. Be prepared for the Transport Canada Commercial Written Exam

Potential Elements of the Performance:

Material learned in the semester is to prepare students for writing the Sault College Commercial Qualification exam and the Transport Canada Commercial Exam and serve as a basis for IFR weather.

**III. TOPICS:**

1. Meteorology Theory
2. Meteorological Services for Pilots
3. Advanced Meteorology
4. Preparation for the Commercial Qualification exam and the Transport Canada Commercial Pilot exam

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

Air Command Weather Manual  
 Air Command Weather Supplement  
 AIM  
 Access to internet is an asset

**V. EVALUATION PROCESS/GRADING SYSTEM:**

The student will be assessed by a combination of quizzes, tests and a final exam. Weighting of each will be as follows: 10% for quizzes, 40% for the mid-term test and 50% for the final exam. A minimum mark of 70% is required to pass the course.

- Quizzes will either be announced 1 week in advance or unannounced. If a student is absent for a quiz without excuse, the student will get 0% on the quiz. There will be no make-ups of missed quizzes when missed due to unexcused absence. If the student is properly excused, then he or she will be allowed to make-up the quiz.
  - In order to be excused from class, students must contact the professor by either calling extension 2666 and leaving a message, or by sending an email. In either case, the message must be received prior to the start of class.
  - Students may request a deferment of a test for compassionate reasons. Compassionate Grounds for deferment will include but not be limited to death of an immediate family member, personal illness, or recent diagnosis of a serious illness of a family member. **Make-ups will not be permitted after the fact for compassionate reasons.**
  - Dates of tests will be announced at least 1 week in advance.
- A classroom code of conduct can be found in the SOP General section, and will be adhered to.

The following semester grades will be assigned to students:

<b>Grade</b>	<b><u>Definition</u></b>	<b><i>Grade Point Equivalent</i></b>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
F (Fail)	69% and below	0.00
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

**VI. SPECIAL NOTES:**Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers may not be granted admission to the room.>

Unexcused absences will result in 2% deduction of the final mark for each occurrence, arriving for class late will result in a 1% deduction of the final mark for each occurrence, and violations of the dress code will result in a 1% deduction of the final mark for each occurrence. To avoid losing marks due to illness, you must contact the professor and leave a voice message (which is time-stamped) or an email **PRIOR TO THE START OF THE CLASS**. Calling after the class begins will indicate that the student simply slept in and was not in fact sick.

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**VII. COURSE OUTLINE ADDENDUM:**

The provisions contained in the addendum located on the portal form part of this course outline.