COURSE OUTLINE: AVF111 - METEOROLOGY I & II

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Course Code: Title	AVF111: METEOROLOGY I & II
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Academic Year:	2023-2024
Course Description:	This course prepares pilots-in-training for writing the meteorology section of the Transport Canada Private Pilot written exam as well as enabling them to interpret weather reports and forecasts in preparation for flight. To provide a solid foundation for making good weather decisions, meteorology theory is covered in detail. This course also provides the foundation for meteorology in second and third year of the Aviation Program
Total Credits:	2
Hours/Week:	2
Total Hours:	30
Prerequisites:	ATQ112
Corequisites:	There are no co-requisites for this course.
This course is a pre-requisite for:	AFT131, AFT132, AVF241
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	**4061 - AVIATION TECHNOLOGY** VLO 1 Aviation Technology - Flight
Essential Employability Skills (EES) addressed in this course:	EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 70%, B A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
Other Course Evaluation & Assessment Requirements:	In order to be excused from class due to illness or other unforeseen circumstance, students must contact the professor, usually by email or Teams, or they can leave a voicemail at

extension 2666. Notice must be left 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.

If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.

Books and Required Resources:

Aeronautical Information Manual (TC AIM - TP 14371) by Transport Canada
Publisher: Transport Canada
ISBN: none
https://www.tc.gc.ca/eng/civilaviation/publications/tp14371-menu-3092.htm

Royal Canadian Air Force Weather Manual by 1 Canadian Air Division
Publisher: 17 Wint Publishing Office
ISBN: 978-0-660-20260-0
Library and Archives Canada Cataloguing in Publication

Royal Canadian Air Force Weather Workbook

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Review of topics previously taken in during the prerequisite course.	Threshold knowledge test
Course Outcome 2	**Learning Objectives for Course Outcome 2**
Advanced meteorological theory	understand the theory behind precipitation, visibility, wind shear, airframe ice, altimetry, mountain waves, thunderstorms
Course Outcome 3	**Learning Objectives for Course Outcome 3**
Interpret Aviation Weather Forecasts and reports	Graphical Area Forecasts (GFA), Terminal Area Forecasts (TAF), Upper wind and temperature forecasts (FD), Air Meteorological Advisory (AIRMET), Significant In-Flight Weather Warning Messages (SIGMET), Aviation Routine Weather Report (METAR), Pilot Reports (PIREP), Surface Analysis charts, Upper air charts

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final exam	40%
Tests	60%

Date: December 8, 2023

| **Addendum:** | Please refer to the course outline addendum on the Learning Management System for further information. |