# COURSE OUTLINE: AVT361 - METEOROLOGY IV

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Approved: Greg Farish, Chair, Aviation Technology - Flight

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| **Course Code: Title** | AVT361: METEOROLOGY IV |
| **Program Number: Name** | 4061: AVIATION TECHNOLOGY |
| **Department:** | AVIATION TECHNOLOGY |
| **Semesters/Terms:** | 20F |
| **Course Description:** | This course reviews meteorology theory already learned, and explores the methods of using meteorological services available to pilots to prepare for an IFR flight. More advanced theory is also introduced. This course is in preparation for writing the Transport Canada Instrument Rating Exam (INRAT). |
| **Total Credits:** | 3 |
| **Hours/Week:** | 1 |
| **Total Hours:** | 15 |
| **Prerequisites:** | AFT130, AVT252, AVT253, AVT257, AVT259 |
| **Corequisites:** | There are no co-requisites for this course. |
| **This course is a pre-requisite for:** | AFT370, AVT370, AVT375, AVT377, AVT378 |
| **Essential Employability Skills (EES) addressed in this course:** | EES 4 Apply a systematic approach to solve problems.<br>EES 5 Use a variety of thinking skills to anticipate and solve problems.<br>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.<br>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.<br>EES 11 Take responsibility for ones own actions, decisions, and consequences. |
| **Course Evaluation:** | Passing Grade: 70%, B<br><br>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation. |
| **Other Course Evaluation & Assessment Requirements:** | Assignment handed in late: handed in next day after due date: 25% deduction. 2 days late: 50% deduction. Three days: 75%. Projects will not be accepted after that and a mark of zero awarded<br>In order to be excused from class, students must either call extension 2666 and leave a message, are send an email. In either case the message must be received prior to the start of class.<br>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. |

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.

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| | Dates of tests will be announced at least 1 week in advance.<br>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 by Transport Canada<br><br>CAP GEN (Canada Air Pilot General section) by NavCanada<br>Obtained by subscription as part of another course |

**Course Outcomes and Learning Objectives:**

| **Course Outcome 1** | **Learning Objectives for Course Outcome 1** |
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| Demonstrate a practical knowledge of meteorology theory taken in first and second year | A review of fundamentals of weather, Icing, Turbulence, Thunderstorms, Aviation Weather Reports, Aviation forecasts, Weather maps and prognostic charts, Weather interpretation as it applies to the Instrument Rated Pilot |
| **Course Outcome 2** | **Learning Objectives for Course Outcome 2** |
| Interpret weather reports and forecasts | Review GFA and other reports and forecasts |
| **Course Outcome 3** | **Learning Objectives for Course Outcome 3** |
| Apply Air Regulations as it applies to IFR flight, with respect to the weather requirements | Departure, approach and landing minima, alternate minima. |
| **Course Outcome 4** | **Learning Objectives for Course Outcome 4** |
| Make a go/no go decision with respect to an IFR flight | Determine what weather products to retrieve, then interpret them to form the appropriate decision |

**Evaluation Process and Grading System:**

| Evaluation Type | Evaluation Weight |
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| Assignment | 10% |
| Final exam | 50% |
| Tests | 40% |

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| **Date:** | June 11, 2020 |
| **Addendum:** | Please refer to the course outline addendum on the Learning Management System for further information. |

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