



COURSE OUTLINE

AVT369

1

Prepared: Earl Turner Approved: Greg Mapp

Course Code: Title	AVT369: NAVIGATION AND INSTRUMENT PROCEDURES
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Course Description:	This course provides for you to incorporate the knowledge acquired from AVT259 into practical navigation exercises required for IFR flight. Included will be the review of basic instrument flying, instrumentation, navigation systems and physiological factors.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Prerequisites:	AVT252, AVT259
This course is a pre-requisite for:	AFT370
Essential Employability Skills (EES):	#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. #2. Respond to written, spoken, or visual messages in a manner that ensures effective communication. #3. Execute mathematical operations accurately. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #6. Locate, select, organize, and document information using appropriate technology and information systems. #7. Analyze, evaluate, and apply relevant information from a variety of sources. #10. Manage the use of time and other resources to complete projects. #11. Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 70%. B



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2

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Other Course Evaluation & Assessment Requirements:

The student will be assessed by a combination of attendance and deportment, quizzes, tests and the final exam. Weighting of each will be as follows: 20% for quizzes, 30 % for all tests prior to the final exam, and 50% for the final exam. A minimum mark of 70% (B) is required to pass the course. Students enrolled in this course are not permitted to write the Transport Canada INRAT without having first passed the qualification exam.

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. Refer to the SOP GEN 1.3 for dress code policies and SOP GEN 1.6.7 for policy regarding absence from classes

Quizzes will be given without prior notice.

Students may request a deferment of a test or exam or exam 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.

A classroom code of conduct can be found in the SOP General section, and will be adhered to.

Attendance is mandatory for all Aviation classes unless approval is granted. In the case of illness, a phone call, voice mail or e-mail message is expected.

If a student expects to be late or will be delayed for any reason, every attempt should be made to contact the professor, or leave a message on voice mail or e-mail.

Although attitude, co-operation, etc., are not graded, students may be terminated based on their performance in this area (see section VI). These attributes are also considered in the selection of the Air Canada Award and other scholarships.

Dates of tests will be announced at least 1 week in advance.

Evaluation Process and Grading System:

Final Exam is 50% of the total grade

Quizzes is 20% of the total grade

Tests is 30% of the total grade

Books and Required Resources:

Instrument Procedures Manual

Publisher: Aeronautical Publishing Services, Transport Canada

No Author Indicated

Aeronautical Information Manual

Downloadable from Transport Canada's web site

Enroute Low Altitude - LO 3&4



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3

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Available by subscription from Nav Canada or electronic format from other suppliers - see Nav Canada website for list of providers

Canada Air pilot - CAP 4

Available by subscription from Nav Canada or electronic format from other suppliers - see Nav Canada website for list of providers

Terminal Area Charts

Available by subscription from Nav Canada or electronic format from other suppliers - see Nav Canada website for list of providers

Canada Flight Supplement

Available by subscription from Nav Canada or electronic format from other suppliers - see Nav Canada website for list of providers

Course Outcomes and Learning Objectives:

Course Outcome 1.

Plan a navigation trip using instrument flight rules.

Learning Objectives 1.

Obtain and interpret weather, NOTAMS and PIREPS which are required for the trip

Apply the weather information to ensure you meet or exceed the minimums as set in the regulations.

Have a clear understanding of the rules and their application for each phase of the trip.

Utilization of all publications required for the trip. This includes the Canada Air Pilot (CAP), Low Enroute Charts (LO), Canada Flight Supplement (CFS) and the Aeronautical Information Publication (AIP).

Course Outcome 2.

Depart, navigate enroute, hold, approach and execute a missed approach all using instrument flight rules.



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4

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Learning Objectives 2.

Departure procedures including taxi, clearances and take off criteria

Enroute procedures including position reports, IFR altitudes, climbs , descents and clearance limits

Holding procedures including types of holds, entry procedures, timing, shuttle holds and speed limitations.

Arrival procedures including descent, standard arrivals, profile descents, control transfers, types of approaches, approach clearance and approach.

Missed approach procedures including missed approach point or decision height, holds, clearances and alternate airports

Course Outcome 3.

Respond to or anticipate physiological factors which may affect flight safety in instrument conditions.

Learning Objectives 3.

Effects of altitude, symptoms and prevention of hypoxia, hyperventilation and the treatment of hypoxia and hyperventilation

Visual and vestibular illusions, when they occur and how to avoid them

Effect of drugs and alcohol on flight performance.

The need for proper rest and the effects of fatigue and stress on a pilot's performance

Date:

Friday, July 14, 2017