

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Flight Operations
CODE NO. : AVT 377-2 **SEMESTER:** Seven
PROGRAM: Aviation Technology (Flight)
AUTHOR: Colin Reid
DATE: Jan 2015 **PREVIOUS OUTLINE DATED:** Jan 2014
APPROVED: _____
INSTRUCTOR: Colin Reid **CHAIR** _____ **DATE** January 2, 2015
TOTAL CREDITS: 2
PREREQUISITE(S): AVT 369
HOURS/WEEK: 2

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For additional information, please contact Greg Mapp, Flight Operations Manager
Aviation Flight Programs; (705) 759-2554, ext. 2865

I. COURSE DESCRIPTION: (may vary)

AVT377 has two components to it. First, you will complete navigation and instrument procedures (AVT369), which includes passing the INRAT (Transport Canada Instrument Rating Exam). Second, you will learn aspects of flight operations, which will help prepare you for the knowledge portion of your ATPL and your career as a professional pilot.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Pass Transport Canada's instrument rating exam

Potential Elements of the Performance:

- Navigation and instrument procedures for IFR operations
- Qualification exam for the instrument rating

2. Plan a flight in high level airspace

Potential Elements of the Performance:

- Proper application of the rules of the air
- Correct use of the desired track system for the trip. This could be jet airways, random routes, North American Track System, North American routes, Northern Tracks, Southern Tracks, or the Organized Track System

3. Assess the risk during cold weather operations

Potential Elements of the Performance:

- Aircraft contamination in flight
- Aircraft de/anti icing on the ground
- Performance on contaminated runways
- Low temperature affect on altimetry

4. Institute measures to reduce the risk of Controlled Flight into Terrain

Potential Elements of the Performance:

- Background
- CFIT statistics
- Causes
- Prevention

5. Institute measures to reduce the risk of approach and landing accidents

Potential Elements of the Performance:

- SOP's
- Crew Coordination
- Altimeter and Altitude
- Descent and Approach Management

- Approach hazard awareness
- Go-Around
- Approach techniques
- Landing techniques

III. TOPICS TO INCLUDE:

1. Oceanic Flight Planning
2. IFR Operational Rules
3. IFR Flight Planning
4. IFR Meteorology
5. Flight Planning in High Level Airspace
6. Cold Weather Operations
7. Controlled Flight into Terrain
8. Approach and Landing Accident Reduction Strategies
9. Use of Modern Radar
10. MEL (Minimum Equipment List)

IV. REQUIRED RESOURCES/TEXTS/MATERIAL:

- Instrument Procedures Manual
- A.I.P.
- Jeppeson Computer
- Enroute Low Altitude – LO 3&4
- Canada Air Pilot – CAP 4
- Terminal Area Charts
- Canada Flight Supplement
- Internet Access

V. EVALUATION PROCESS/GRADING SYSTEM:

The student will be assessed by a combination of attendance and deportment, quizzes, tests, and a final exam. Weighting of each will be as follows: 30% for quizzes, 30% for all tests prior to the final exam, and 40% for the final exam. A minimum mark of 70% is required to pass the course. Make-up tests are not permitted except in accordance with Section VI of this outline.

- 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 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:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	
A	80 – 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
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. *For all AVT and AVF classes there is an additional incentive not to miss class. Please refer to Section V Evaluation Process/Grading System for further information.*

COURSE OUTLINE ADDENDUM:

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