

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**COURSE OUTLINE**

**COURSE TITLE:** Flight Training 3  
**CODE NO. :** AFT240-9 **SEMESTER:** Four  
**PROGRAM:** Aviation Technology (Flight)  
**AUTHOR:** Steven A. Hause  
**DATE:** January 2010 **PREVIOUS OUTLINE DATED:** August 2006  
**APPROVED:**

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**CHAIR**

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**DATE**

**TOTAL CREDITS:** 9  
**PREREQUISITE(S):** N/A  
**HOURS/WEEK:** N/A

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**I. COURSE DESCRIPTION:**

This course allows you the opportunity to continue to hone the skills acquired in semesters two and three, learn to navigate using radio aids, complete the requirements for the night rating and prepare you for the VFR Navigation Progress Flight Test. The VFR Navigation Flight Test is a component of the Integrated Commercial Flight Test.

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

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

1. Maintain the previously achieved private pilot flight test standards as outlined in the Transport Canada Flight Test Guide for Private Pilot License (TP13723E)

Potential Elements of the Performance:

- Successfully complete all lesson plans as outlined in the progress book

2. Complete the requirements for the private pilot night endorsement

Potential Elements of the Performance:

- Successfully complete the flight training for the night endorsement as outlined in the progress book
  - Submit the application for the endorsement of a night rating to Transport Canada
3. Demonstrate sufficient navigation competence to be recommended for the VFR Navigation Progress Flight Test (TP13799E).

Potential Elements of the Performance:

- Fly the aircraft and FTD using instruments as the sole reference.
  - Orientate, intercept and track various courses to and from a VOR, GPS or NDB waypoint.
  - Determine your location when lost, calculate a course of action to either regain track or continue to a destination.  
With no prior preparation, be able to navigate using dead reckoning skills.
4. Successfully and safely complete a navigation exercise following procedures used in a 703 operation.

**Potential Elements of the Performance:**

- Pass the VFR Navigation Progress Flight Test (TP13799E).

**III. TOPICS**

- 1) The Commercial Pilot Flight Standards
- 2) Emergency Manoeuvre Training
- 3) Radio Navigation
- 4) The Night endorsement

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

The Zlin ground school manual  
Flight Test Guide - Commercial Pilot Licence Aeroplane (TP13462E)  
Aeronautical Information Manual (AIM)  
Canada Flight Supplement  
Air 5001 Sault Ste Marie VNC  
The Flight Training Manual  
From the Ground Up  
Canadian Aviation Regulations (CARs)

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

The aviation program is divided into 8 phases. To continue in the program a student must meet specific criteria before advancing to the next phase. AFT240 is the flight program for semester 4 and corresponds to phase 4. For further details on phases of flight and the training syllabus refer to the Sault College Training Manual.

The specific criteria, which must be met prior to advancing to AFT250 (semester 5, phase 5), are:

- No "F" grades
- Be recommended for the VFR Navigation Progress Flight Test (TP13779E).
- Pass the VFR Navigation Progress Flight Test (TP13779E).

To help accommodate different learning styles, each student will be given a specified amount of additional remedial training time. This remedial training time, if required, will be used for training as outlined in a learning plan (see Sault College Standard Operating Procedures for details). The amount available to students in semester 4, is 5 additional flight hours. In addition to flight hours, students will be allotted 5 additional dual training hours in the FTD. There is no limit on the amount of solo use of the FTD. Students might also be required to repeat any lesson plan if it is deemed unsatisfactory. A student, who doesn't meet the criteria, will be involuntarily withdrawn from the aviation program.

### **VFR NAVIGATION PROGRESS TEST**

This flight test supplements the Commercial Pilot Aeroplane flight test and is a requirement of the CPL(A)IR (commercial pilot licence aeroplane, endorsed with both multi engine and instrument privileges) course. It will follow the Transport Canada VFR Navigation Progress Flight Test Guide (TP13779E).

1. Admission to VFR Navigation Progress Flight Test – Students shall have completed all lesson plans in semester 4 with the following exceptions – 421, 451-458 Marking Scale – Will be the same as found in TP13779E.
2. Conduct of the flight test – The flight test will be conducted as described in the flight guide.
3. Satisfactory Grade – A student’s performance will be considered satisfactory provided no exercises are assessed as “1” (one).
4. Unsatisfactory Grade – A student who does not meet the satisfactory criteria will be assessed as unsatisfactory. The re-ride policy as described in section VII of this outline will then be applied.

**The following semester grades will be assigned to students in aviation flight courses:**

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 is mandatory for all flights unless approval is granted in advance.
- Students that do not show up on time and/or are not totally prepared for their flight will be sent home. In addition to their flight being cancelled, students which “no show “ may be fined \$50.00. Students, which demonstrate this behaviour, will receive a letter of warning. The consequences of subsequent letters of warning are dealt with in the Sault College Standard Operating Procedures. Repeated infractions tend to be a manifestation of the 5

Hazardous attitudes and will be dealt with in accordance with section VII: “Attitude and Conduct”.

- Although attitude, co-operation, etc., are not graded, students may be terminated from the program based on their performance in this area (see below). These attributes are also considered in the selection of the Air Canada Award and other scholarships.
- Students must always ensure they are fit for the flight. An aid to assess this is the IMSAFE checklist. If you believe you are NOT fit to fly, then it is YOUR responsibility to cancel the flight.
- 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. **Rides will not be permitted after the fact for compassionate reasons.**

### **Attitude and Conduct**

Attitude plays an important role in your ability to exercise good judgment. Although attitude is not being graded, it affects your ability to learn as well as your safety as a student and future as a professional pilot. Students who display a strong tendency towards any of the five hazardous attitudes pose a grave risk to themselves and others. For this reason these students will be counseled and may be placed on probation. If this is ineffective, then sanctions or involuntary withdrawal may be the only recourse. The five hazardous attitudes are identified as Anti-authority, Impulsivity, Invulnerability, Machismo, and Resignation. These hazardous attitudes are described in “Human Factors for Aviation – Basic Handbook” on pages 151 and 152.

### ***Denial of Appeal***

Students may be summarily withdrawn from the Aviation Program for actions that adversely affect flight safety. These students will not be allowed to appeal this involuntary withdrawal. A partial list of offences appears below. Note that this is a partial list only and other offences may also be subject to this policy.

1. Violation of the Canadian Aviation Regulations, whether Transport Canada has taken official action or not, that have a direct impact on flight safety.
2. Landing at other than a licensed or approved airfield, except for emergency or precautionary reasons, or an instructor is on board.
3. Low flying as defined in the Sault College Rules, Regulations and Safety Precautions for Flight Training.
4. Solo Aerobatic flight.
5. Solo Spin practice.

6. Solo formation flight. For this purpose, formation flight is defined as two aircraft intentionally flying within 1 nm from each other, and not under the control of any air traffic agency.
7. Handling of aircraft in any way that may endanger persons or property.
8. Fuel exhaustion.
9. Flying under the influence of drugs or alcohol.

### **Re-ride policy:**

If a student is not safe for their first solo flight (in a Sault College aircraft) and has sufficient remedial training time available, a learning plan will be drawn up describing deficient areas and strategies for improvement.

If a student is not safe for subsequent solo lesson plans and has sufficient remedial training time available, a learning plan will be drawn up describing deficient areas and strategies for improvement.

Please refer to your Sault College Aviation Standard Operating Procedures section 1.3.0.3 for further details.

### **Course Outline Amendments:**

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

### **Disability Services:**

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

### **Communication:**

The College considers **LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

### **Student Portal:**

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your

personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.

### **Electronic Devices in the Classroom:**

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College. Electronic devices such as cameras, cellular phones, MP3 players and personal laptop computers are not permitted in Sault College aircraft on dual flights without prior authorization from the instructor providing dual instruction. Use of electronic devices on solo flights is not permitted.

### **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.

### **Tuition Default:**

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of March, will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.