

**SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON**



COURSE OUTLINE

Course Title: Aeronautics 5

Code No.: AVT 205-4

Semester: Five (5)

Program: Aviation Technology (flight)

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Date: December 1997 Previous Outline Date: January 1997

Approved: Kitty DeRosario
Dean

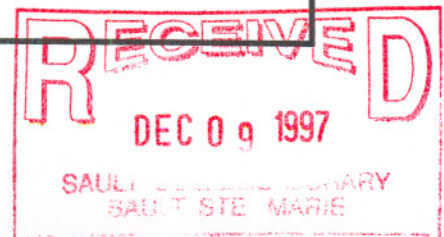
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Date

Total Credits: 4

Prerequisite(s): AVT 200-4

Length of Course: 16 weeks Total Credit Hours: 64 periods

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For additional information, please contact Kitty DeRosario, Dean, School of Trades
& Technology, (705) 759-2554, Ext. 642.



I. COURSE DESCRIPTION:

To teach the theory and practice of Aviation Technology, with emphasis in study for the completion of the Commercial Pilot Licence Standard

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

(Generic Skills Learning Outcomes placement on the course outline will be determined and communicated at a later date.)

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

- 1) Understand the use of radio navigation aids, LO charts, WAC charts, and understand general navigation theory, complete the navigation portion of the Transport Canada Commercial written exam

Potential Elements of the Performance:

Review the use of radio navigation aids, Introduction to IFR procedures regarding holds and approaches, review of general navigation

- 2) understand the advanced theory of meteorology and be able to complete the meteorology portion of the Transport Canada written exam

Potential Elements of the Performance:

Meteorological factors in altimetry, Mountain Waves, Thunderstorms, review of meteorological services in Canada, review of weather decoding.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE
(Continued)**

- 3) understand the air law required of the commercial pilot and complete the Transport Canada Commercial written exam air law section

Potential Elements of the Performance:

CARs parts I, II, IV, VI, VII

- 4) understand the general knowledge required of the commercial pilot and complete the Transport Canada Commercial written exam general knowledge section

Potential Elements of the Performance:

Weight and Balance, Aircraft Performance, Review of Theory of Flight, Aircraft instrumentation

III. TOPICS:

- 1) Navigation
- 2) Meteorology
- 3) Air Law
- 4) General Knowledge

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

From the Ground Up

Study and Reference Guide for Commercial Pilots

AIP

Canada Flight Supplement

Air Command Weather Manual

The Advanced Pilot's Flight Manual - Kirshner

V. EVALUATION PROCESS/GRADING SYSTEM

The student will be assessed by tests following the delivery of each topic. The final exam for each topic will be the appropriate section of the Commercial Qualification Exam. Weighting of each test within a topic will be 50 % for all tests prior to the final and 50 % for the final exam. Each topic is then averaged together for the overall mark for final semester grade.

GRADE:

A+ - 93 - 100%
A - 87 - 92%
B - 80 - 86%
C - 70 - 79%
R - Below 70%

- To be recommended to write the DOT Commercial Written Exam, the Sault college Commercial Qualification Exam must be passed with a minimum of 70% overall and a 70% in each of the four segments. An "R" grade will be awarded for AVT in the event of a failure regardless of the resulting average.

- DOT Commercial Written Exam is not included in college grades although a minimum of 70% as well as a pass of all segments is required to continue on course. An "R" grade will be awarded in the event that this requirement is not met.

- 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. **Rewrites will not be permitted after the fact for compassionate reasons.**

- **"R" grades in any subject at the end of a semester will result in termination from the program. Re-writes in aviation subjects are not permitted except as provided in the re-write policy below.**

- Attendance is mandatory for all Aviation classes unless approval is granted in advance.

- Although attitude, co-operation, etc., are not graded, students may be terminated based on their performance in this area. 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.

VI. SPECIAL NOTES:**Re-write policy**

-no re-writes on mid term tests

- An individual section of the Sault College Commercial Qualification Exam may be re-written in the event of a failure provided the overall semester average is 70% or greater and the failed section is within 5% of a pass (ie. 65% or more). If more than one section is failed, re-writes will not be permitted. The re-written section will be averaged with the failed section to determine the resulting mark which must be 70% or above to pass. If the delay in obtaining a recommendation for the DOT Commercial Written Exam results in the student not writing with the remainder of the class, then the student must make his/her own arrangements to write the DOT Commercial Written Exam within the time limit specified by the instructor.

- No re-writes on the DOT Commercial Written Exam

- Special Needs

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.

- Retention of Course Outlines

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following:

