

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



COURSE OUTLINE

Course Title: Aeronautics 2

Code No.: AVT 100-5

Semester: two

Program: Aviation Technology (flight)

Author: Louis St Pierre

Date: December 1998 Previous Outline Date: Dec. 1997

Approved:

K. DeRosario

Dean

Dec 22/98

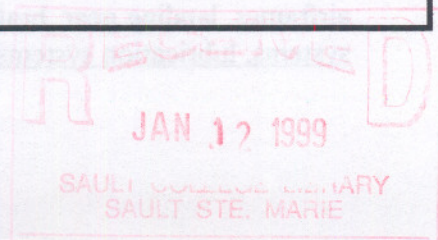
Date

Total Credits: 5

Prerequisite(s): AVT 101-4

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

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& Technology, (705) 759-2554, Ext. 642.



I. COURSE DESCRIPTION:

To teach the theory and practice of Aviation Technology, with emphasis in the study for the completion of the Private 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 theory and techniques of dead reckoning navigation, as well as theory of radio navigation aids, required for the completion of the navigation portion of the Transport Canada Private Pilot Exam

Potential Elements of the Performance:

use of flight computers and mental dead reckoning, navigation logs, aviation charts and publications such as the Canada Flight Supplement, preparation for cross country flight, application of Air Law regarding recognition of controlled and uncontrolled airspace and any other airport operations, basic radio navigation

- 2) Understand the theory of meteorology required for the completion the meteorology portion of the Transport Canada Private Pilot exam

Potential Elements of the Performance:

thunderstorms, icing, high level weather, meteorological information available to pilots, weather reports, charts and forecasts, and any other meteorology not taken in AVT 101

- 3) Understand the systems of the Zlin 242, basic search and rescue, and be able to determine aircraft performance data and weight and balance as required for the Transport Canada Private Pilot exam

Potential Elements of the Performance:

the Zlin 242 ground school manual, aircraft performance, use of performance charts, weight and balance

- 4) Understand the airframes, engines and systems of general aviation aircraft for the completion of the general knowledge section of the Transport Canada Private Pilot Exam

Potential Elements of the Performance:

airframes, landing gear, brakes, flaps, engines, carburation, fuel injection, electrical systems, lubrication systems and oils, fuel systems and fuels

III. TOPICS:

- 1) Navigation
- 2) Meteorology
- 3) Zlin Systems and operations
- 4) airframes, engines and systems

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

From the Ground Up

Zlin 242 ground school manual

AIP

VNC charts – Toronto, Sault Ste Marie

VTA charts – Toronto

The Canada Flight Supplement

V. EVALUATION PROCESS/GRADING SYSTEM

The student will be assessed by tests following the delivery of each topic. 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% or failure of any topic within AVT 100

- 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.
 - The final exam of an individual topic of AVT 100 may be re-written in the form of a new exam provided the overall AVT 100 semester average is 70% or greater and the failed topic is within 5% of a pass (i.e. 65% or above). If more than one topic is failed, re-writes will not be permitted. The re-written exam will be averaged with the failed exam to determine the resulting topic mark which must be 70% or above to pass.
 - No re-writes on any D.O.T. exam.
 - In the event of a re-write, the highest achievable overall grade will be a C
- 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.

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor