SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

COURSE OUTLINE

COURSE TITLE: AERONAUTICS 2

CODE NO.:

AVT 110

SEMESTER 3

PROGRAM:

AVIATION

AUTHOR:

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DATE;

12 MAY 1997

PREVIOUS DATE: AUGUST 1995

APPROVED: DEAN

DATE: MAY 20, 1997



TOTAL CREDITS 6

PREREQUISITE(S):		

I. PHILOSOPHY/GOALS: This course will allow the student to utilize the theoretical knowledge gained in the first two semesters as they apply to practical flight situations during the flying training. In addition, material from the first two semesters will be reviewed and reinforced in order to prepare the student for the Sault College Private Pilot Exam and (for those unlicensed students), the Transport Canada Private Pilot Exam.

II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will:

- 1) Be able to understand the application of knowledge for operation of aircraft in the exercises specified by Transport Canada.
- Attain the required knowledge necessary to be able to achieve a 70% mark in the four major areas of study (Air Law, Aeronautics, Meteorology, and Navigation in addition to a 70% overall mark). (See Transport Canada Study and Reference Guide TP.12880 Every student whether licenced or not shall complete and pass the College Private Pilot Exam, whereas those students who presently do not hold an existing licence shall additionally complete and pass the Transport Canada Private Pilot Exam.)
- 3) Upon successful completion of this course and AVT 105, the student shall be admitted to fourth semester of this program.

III. TOPICS TO BE COVERED:

Phase I: These topics are further broken down as per the Transport Canada Guide: Study and Reference Material for Private

and Commercial Licence TP 12880

- 1. Air Law
- 2. Aeronautics
- 3. Meteorology
- 4. Navigation

These topics are related to specific exercises which will be Phase II: executed as in flight sequence during the flying training

portion of this semester.

Aircraft Familiarization

2. Checklists and Preparation for Flight

Ancillary Controls 3.

4. Taxiing

5. Attitudes and Movements

Straight and Level Flight 6.

7. Climbing

Descending

Turns and Steep Turns 9.

10. Range and Endurance

11. Slow Flight

12. Stalls

13. Spins14. Spirals

15. Sideslipping
16. Takeoffs

16. Takeoffs

17. The Circuit

18. Landings

19. First Solo
20. Illusions Created By Drift

21. Precautionary Landings

22. Forced Approaches23. Navigation24. Instrument Flying

IV. LEARNING ACTIVITIES/REQUIRED RESOURCES

Learning Activities:

Phase I

The Learning Activities have been blocked in related topic areas. Classroom review periods will enable the students to perform as interactive groups to reinforce and ensure understanding of each topic area. (These topic areas are specified in the Transport Canada Study and Reference Guide TP12880

Phase II

Structured classroom presentations regarding practical utilization of knowledge as it applies to aircraft application and operational considerations. Each topic will be presented and discussed in order to allow the student to define solutions to problems and appreciate the safety implications of various flight operations.

V. EVALUATION METHODS:

Phase I - One major exam (Sault College Private Pilot Exam - minimum mark 70% - 17 of 25 questions in each of the 4 topic areas must be answered correctly - Air Law, Aeronautics, Meteorology, and Navigation.) The exam will be a time limited, multiple choice examination.

Failure to obtain the specified minimum passing grade, the student shall be involuntarily withdrawn from the Program.

Phase II - Quizzes on the material covered during the preparatory Ground School exercises (1-24). No rewrite opportunities exist for quizzes.

V. EVALUATION METHODS: (continued)

Quizzes will entail:

Pre Solo Exercises
Advanced Exercises

In addition, for licencing purposes Transport Canada Pre-solo tests shall be completed, including a radio licence test but shall not be included in the final mark for AVT110.

Phase I College Private Pilot Exam will account for 70% of the final mark and be subject to the requirements outlined above.

Phase II Each quiz will account for 10% of term mark (3 quizzes: 30%) and will be combined with the mark obtained in Phase I.

Grading Scheme

A+	93% or >
A	87 - 92
В	80 - 86
C	70 - 79
R	< 70

Final & Quizzes: will be announced about one week in advance.

Attendance: Mandatory unless specific arrangements have been made and approved by the instructor.

VI. PRIOR LEARNING ASSESSMENT:

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:

RE-WRITE POLICY

-at the instructor's discretion, an individual section may be re-written in the event of a failure provided the overall semester average is 70% or greater and thefailed sectionis within 5% of a pass.(ie. 65% or above) 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.

-NO RE-WRITES ON ANY D.O.T. WRITTEN EXAM.

VI. REQUIRED STUDENT RESOURCES

As per book list.

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Book Section - Various

Periodical Section - Various

Audiovisual Section - Various

VIII. SPECIAL NOTES

Students with special needs (e.g. Physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.