

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: SAFETY AND HUMAN FACTORS IN AVIATION

CODE NO: AVT280-3 SEMESTER: VII

PROGRAM: AVIATION TECHNOLOGY

AUTHOR: R. MASCOTTO

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PREVIOUS OUTLINE DATED: OCTOBER 31, 1988

APPROVED: *R. Mascotto*
Dean, School of Engineering Tech.

94-01-31
Date

COURSE NAME: SAFETY AND HUMAN FACTORS

CODE NO.: AVT280-3

TOTAL CREDIT HOURS: 64

PREREQUISITE(S): Successfully completed the sixth semester Aviation Technology.

I. PHILOSOPHY/GOALS:

The objectives of this course are to review survival and winter flying techniques, to ensure students have an awareness of typical accident causes, effects of flight on the human body, and to study the handling of dangerous goods.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:
Graduate from the Aviation Technology Course.

III. TOPICS TO BE COVERED:

- Winter flying and flight safety
- Aero Medicine
- Survival
- Dangerous Goods

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LEARNING ACTIVITIES

<u>Topic</u>	<u>Periods</u>	
1	2	Winter Flying - Film and Discussion
2	2	Typical Accident Causes
3	16	Class Symposium of Flight Safety
4	1	Film and Discussion
5	1	Film and Discussion
6	1	Film and Discussion
7	12	Aero Medicine-2 day seminar
8	14	Survival
9	12	Dangerous Goods
10	1	Review
11	2	Final Examination

REQUIRED RESOURCES

Audio visual-VCR-"Winter Flying EP87
Dot Safety Letters and Accident Reports
Audio Visual - EP98 "Probable Cause"
Flight safety presentations

Film #544 - "Wake Turbulence"
Audio-visual - "Mountain Flying" EP86
Film #193 - "Approaches in Fog"
Audio-visual - "Flying Over Water" EP85
Film #555 - "Medical Facts for Pilots"

Guest Lecturer

Down But Not Out
Wilderness Survival
IATA/ICAO Dangerous Goods Regulations

V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS ETC.)

The student will be assessed by tests following the delivery of each topic. The weighting of each test may vary depending on the importance and hours of instruction. Tests are totalled and reduced to a percentage for final semester grade.

A+	93% - 100%
A	87% - 92%
B	80% - 86%
C	70% - 79%
I	Below 70% (applies only to mid-term)
R	Below 70% (applies to final)

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.

An overall G.P.A. of 2.8 is considered minimum acceptable achievement level in the second and third year of the program. Students with a lower G.P.A. will be counselled.

"R" grades in any subject at the end of a semester will result in termination from the program. Rewrites in aviation subjects are not permitted.

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

Although attitude, cooperation, 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 one week in advance.

VI. REQUIRED STUDENT RESOURCES

As per book list.

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Book Section (title, publisher, edition, date, library call number if applicable - see attached example)

Periodical Section (Magazines, Articles)

Audiovisual Section (Videotape, Filmstrips, Transparencies)

VIII. SPECIAL NOTES

Students with special needs (eg. physical limitation, 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 the students.