



SAFETY & HUMAN FACTORS IN AVIATION

AVT 280-3

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Course Name

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Course Number

**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, to discuss effects of the human body during flight, and to study the handling of dangerous goods.

**METHOD OF ASSESSMENT (GRADING METHOD):**

The student will be assessed by written mid-term and final examinations, with both tests carrying equal weight.

Grades will be indicated as follows:

- A - 90-100%
- B - 80- 89%
- C - 70- 79%
- X - below 70% at mid-term
- R - below 70% at final grading

**TEXTBOOK(S):**

R.C.A.F. -- Down But Not Out

Transport Canada - Regulations for Handling Dangerous Goods

I.A.T.A. - Dangerous Goods Regulation

**REFERENCE TEXTS:**

D.O.T. - Accident Reports

D.O.T. - Safety Letters

COURSE OUTLINE:

| TOPIC | PERIODS | TOPIC DESCRIPTION                               |   |
|-------|---------|---|---|
| 1     | 1       | Snowshoeing - Lecture                           |   |
| 2     | 2       | Snowshoeing - Practice                          |   |
| 3     | 2       | Survival - Review                               |   |
| 4     | 2       | Winter flying                                   |   |
| 5     | 8       | Aero-medicine                                   | Guest Lecturer                                |
| 6     | 2       | Typical Accident Causes                         | D.O.T. Safety Letters<br>and Accident Reports |
| 7     | 1       | Review  |   |
|       | 2       | Mid-Semester Examination                        |   |
| 8     | 10      | Dangerous Goods Regulations                     | I.A.T.A. Regulations                          |
| 9     | 1       | Film & Discussion "Caution Wake<br>Turbulence"  |   |
| 10    | 1       | Film & Discussion "Approaches in<br>Fog"        |   |
| 11    | 1       | Film & Discussion "Medical Facts<br>for Pilots" |   |
| 12    | 10      | First Aid                                       | Guest Lecturer                                |
| 13    | 3       | Class symposium on flight safety                |   |
| 14    | 4       | Review  |   |
|       | 2       | Final Semester Examination                      |   |