

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



COURSE OUTLINE

Course Title: Aerodynamics

Code No.: AVT 210-3

Semester: SIX (6)

Program: AVIATION TECHNOLOGY (FLIGHT)

Author: Louis St. Pierre

Date: Dec 1998

Previous Outline Date: SEPT 1993

Approved:

K. DeRosario

Dean

Dec. 22 1998

Date

Total Credits: 3

Prerequisite(s): AVT205

Length of Course: 16 weeks Total Credit Hours: 48

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

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I. COURSE DESCRIPTION:

Review basic aerodynamics and flight instruments from a different approach and introduce students to more advanced concepts of aerodynamics and aircraft performance. Students will also be introduced to the aerodynamics of multi-engine flight.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1) understand theory and practice of advanced aerodynamics

Potential Elements of the Performance:

- advanced aerodynamics
- advanced aircraft performance
- the aerodynamics of multi-engine aircraft

III. TOPICS:

- Aerodynamics
- Aircraft performance

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Advanced Pilot's Flight Manual (Kershner)

V. EVALUATION PROCESS/GRADING SYSTEM

The student will be assessed by tests. Weighting of each test will be 50 % for all tests prior to the final and 50 % for the final exam.

GRADE:

A+ - 93 - 100%

A - 87 - 92%

B - 80 - 86%

C - 70 - 79%

R - Below 70%

- 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.
- In the event of a failure the final exam of AVT 210 may be re-written provided the semester average is 70% or greater and the failed final exam is within 5% of a pass. (i.e. 65% or above). The re-written final exam will be averaged with the failed final exam to determine the resulting mark which must be 70% or above to pass.
- 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.
- Disclaimer for Meeting the Needs of the Learners

VII. PRIOR LEARNING ASSESSMENT

There will be no advanced credit given for this course.

