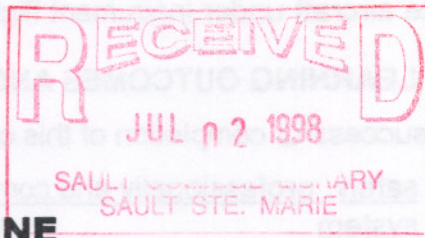


**SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON**



COURSE OUTLINE

Course Title: NAVIGATION AND INSTRUMENT PROCEDURES

Code No.: AVT 226

Semester: SIX (6)

Program: AVIATION TECHNOLOGY (FLIGHT)

Author: BRIAN STEWART

Date: JUNE 1998

Previous Outline Date: SEPT 1995

Approved:

K. DeRosario

Dean

June 29/98

Date

Total Credits: 4

Prerequisite(s): AVT205

Length of Course: 16 weeks Total Credit Hours: 64

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written permission of The Sault College of Applied Arts & Technology is prohibited.
For additional information, please contact Kitty DeRosario, Dean, School of Trades
& Technology, (705) 759-2554, Ext. 642.

I. COURSE DESCRIPTION:

AVT 226 continues where AVT 205 left off. You will learn advanced navigation and instrument procedures that will give you the essential background knowledge to operate aircraft under instrument flight rules.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

- 1) safely, professionally and competently operate in Canada's visual rule airspace system

Potential Elements of the Performance:

VFR flight planning
use of navigation charts, Canada Flight Supplement, A.I.P.
aviation meteorology

- 2) achieve a sufficient level of knowledge to be admitted to AVT 235. AVT 235 completes the knowledge component to qualify to write the written portion of the test for the issuance of an endorsement to operate in Canada's instrument rule airspace system (instrument rating).

Potential Elements of the Performance:

IFR publications
IFR instruments
IFR general procedures
IFR planning, departures, enroute and arrivals
IFR aviation meteorology

III. TOPICS:

- 1) Introduction
- 2) VFR review
- 3) Flight computer
- 4) Flight instruments
- 5) Navigation instruments
- 6) Instrument Flight Rules - general
- 7) Flight and weather planning
- 8) Instrument Flight Rules - departures
- 9) Instrument Flight Rules - enroute
- 10) Instrument Flight Rules - arrival
- 11) Instrument Flight Rules - approaches
- 12) Emergencies

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Instrument Procedures Manual

A.I.P.

Jeppeson Computer

Enroute Low Altitude - LO 3&4

Canada Air Pilot - CAP 4
Terminal Area Charts
Canada Flight Supplement

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.

RE-WRITE POLICY

- No re-writes on mid-term tests.

- The final exam of AVT 226 may be re-written in the event of a failure 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.

VI. SPECIAL NOTES:

- **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.