

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: NAVIGATION & INSTRUMENT PROCEDURES

CODE NO.: AVT226-4 SEMESTER: SIX

PROGRAM: AVIATION TECHNOLOGY

AUTHOR: R. MASCOTTO

DATE: SEP 1993 PREVIOUS OUTLINE DATED: JUNE 1986

APPROVED: *R. Mascotto*
DEAN

03-09-02
DATE

III. TOPICS TO BE COVERED:

1) 16 weeks - 4 periods per week

1)	- IFR Publications
2)	- IFR Instruments & Procedures
3)	- IFR Departures
4)	- IFR Enroute
5)	- IFR Arrivals

NAVIGATION & INSTRUMENT PROCEDURES
COURSE NAME

AVT 226-4
CODE NO.

TOTAL CREDIT HOURS 64

PREREQUISITE(S): Successfully completed AVT 200 subject Navigation in the fifth semester

I.

PHILOSOPHY/GOALS: To introduce students to advanced navigation and instrument procedures. Upon completion of the course, in conjunction

with simulator and flight training, the student will: a) have a working knowledge of IFR; and b) apply and develop his instrument flying knowledge and skills in order to be able to conduct:

i) IFR Navigation Flights and

ii) IFR Approach Procedures

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1) be admitted to AVT235 in the seventh semester

2) _____

3) _____

4) _____

III. TOPICS TO BE COVERED:

Approximate Time
Frames (Optional)

1) 16 weeks- 4 periods per week

2) - IFR publications
- IFR Instruments & Procedures

3) - IFR Departures
- IFR Enroute

4) - IFR Arrivals

5) _____

etc.

IV.	<u>LEARNING ACTIVITIES</u>	<u>RESOURCES</u>
1	1.5 Introduction	course outline
2	8.5 ADF, VOR ILS APPROACH & HOLD PROC's	CAP,AIP,IPM
3	2 LE charts,Term charts,IFR Nav logs,	Sand 13
4	1 DME: Arcing, Fixes & G/S	CAP,AIP
5	4 ATC: Terminal Control & Radar vectors Vs Radar Instruction/information &Cdn Air-space	IPM, AIP
6	4 IFR landings:visual transition,circling, runway lighting & markings,Land landing aids,JBI,RSC	Film,193,187 IPM,AIP
7	2 General section-CAP	CAP
8	2 ATC IFR presentation	
9	4 Unusual Approaches:Remote altimeters Temp corrections,Visual/contact approaches LDA approaches	CAP,IPM,AIP
10	2 ATC visit	
11	2 MID TERM EXAM	
12	4 IFR planning &Notams	CAP, IPM,AIP
13	2 Aircraft visit	
14	4 IFR General &Clearances	AIP, IPM,CAP,Sand15
15	4 IFR Departures & Noise Abatement	AIP, IPM SAND #14
16	2 IFR Exercise	
17	4 IFR Enroutes & Transponder OPS	AIP, IPM SAND #14
18	2 IFR Exercise	
19	6 IFR Arrival	AIP, IPM SAND #14
20	2 OPEN BOOK EXAM & ASSIGNMENT REVIEW	INDUCER
21	2 CLOSED BOOK EXAM & REVIEW	

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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.

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.
- 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, 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. **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 (FILMS, FILMSTRIPS, TRANSPARENCIES)

VIII. SPECIAL NOTES

Students with special needs (eg. 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.

