

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: METEOROLOGY

CODE NO.: AVT 225

SEMESTER: SIX

PROGRAM: AVIATION TECHNOLOGY

AUTHOR: G. MOLNAR

DATE: SEPT. 1995

PREVIOUS OUTLINE DATED: MARCH 1986

APPROVED: _____
DEAN

DATE

METEOROLOGY
COURSE NAME

AVT-225
CODE NO.

TOTAL CREDITS 32

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

I. PHILOSOPHY/GOALS: To introduce students to advanced meteorology. Upon Completion of the course the student will (a) be able to interpret and understand weather systems and (b) understand the hazards and make informed decisions regarding instrument flights.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1) Be admitted to AVT-235 in the seventh semester.

III. TOPICS TO BE COVERED:

Approximate Time
Frames (Optional)

1) Atmosphere and its Properties	2 periods
2) Air Masses and Fronts	2 "
3) Clouds and Percipitation	1 "
4) Aircraft Icing	1 "
5) Boundry Layer Winds & Turbulence	1 "
6) TEST	1 "
7) Factors in Altimetry	1 "
8) Mountain Waves	1 "
9) Thunderstorms	2 "
10) Low Level Wind Shear	1 "
11) FA's, FT's, FD's	1 "
12) SA's, SD's, UA's	1 "
13) TEST	1 "
14) AWDS/Weather Radar	1 "
15) Weather Charts	3 "
16) Satellite Meterology	1 "
17) Analyzing Frontal Movements	2 "
18) TEST	1 "
19) Evaluating In-Flight Weather	2 "
20) Extreme Conditions, Hot & Cold Weather	2 "
21) IFR Flight Planning	2 "
22) REVEIW	1 "
23) FINAL EXAM	1 "

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IV. LEARNING ACTIVITIES/REQUIRED RESOURCES

Topic/Unit - _____

Learning OBJECTIVES:

Resources:

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Topic/Unit - _____

Learning OBJECTIVES:

Resources:

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

Your final grade in AVT-225 will be determined on the basis of three (3) tests and a final exam during the semester. Each test will examine your knowledge of a number of topics. The topics covered in each of the three (3) tests are as per course outline. The final exam will cover all topics. The three (3) tests are each worth 20% of your final grade. The final exam is worth 40% of your final grade.

The following percentage-letter grade equivalents will be used:

A+	=	93	-	100	%
A	=	87	-	92	%
B	=	80	-	86	%
C	=	70	-	79	%
R	=	Below		70	%

Students may request the deferment of a test for compassionate reasons. NO rewrites will be allowed after the fact for compassionate reasons. Compassionate grounds for deferment include such situations as death of an immediate family member or recent diagnosis of a serious illness of a family member.

"R" grades in any subject at the end of a semester will result in termination from the program. A re-write of any test is a privilege granted at the discretion of the instructor. This decision will be based on your performance, effort, attitude and attendance during the semester. The pass mark on the re-write will be 70%. The best grade you will receive upon passing the re-write will be a "C" grade.

Classroom attendance is compulsory. It is the student's responsibility to advise the instructor of any absenteeism.

You will be given a full week's notice prior to any tests being administered. It is the student's responsibility to advise the instructor in advance if he/she cannot attend a test.

VI. **REQUIRED STUDENT RESOURCES**

As per book list.

Attendance is mandatory for all Aviation Classes.

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.