

CALENDAR DESCRIPTION

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: PHOTOGRAMMETRY

Code No.: FOR 104-4

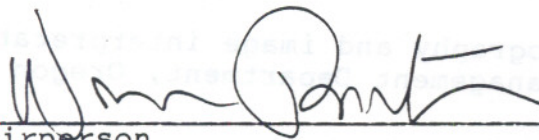
Program: FORESTRY

Semester: ONE

Date: JANUARY 1988

Author: ERWIN GOERTZ

New: _____ Revision: X

APPROVED:  Chairperson

March 8/88 Date

CALENDAR DESCRIPTION

PHOTOGRAMMETRY

FOR 104-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

The aim of this course is to provide the student with basic knowledge and skills in the principles and techniques of vertical air photogrammetry, interpretation and photography as applied to forestry applications.

METHOD OF ASSESSMENT:

Evaluation will be based on in-class lab assignments as well as written tests. To successfully complete the course, the student must have a cumulative passing grade in both the tests and the assignments. Lab assignments will make up 25% of the final grade, with tests comprising the remaining 75%. There will be three (3) tests through the semester each worth 25%. Regular attendance is necessary in that any student missing a lab assignment or test without a legitimate reason will receive an "I" grade in that test or assignment. Students receiving "I" grades on three assignments and/or tests will receive an "R" grade in the course.

NOTE:

There will be no rewrite at the end of the semester. The instructor is available during non-class time for extra help. Please do not pass up this opportunity if you find yourself needing it.

<u>GRADES:</u>	A+	=	85-100%
	A	=	75-84%
	B	=	65-74%
	C	=	55-64%

EQUIPMENT REQUIRED: Pocket Stereoscope
 Black Stabilo grease pencil

TEXT:

Paine, D.P. 1981. Aerial photography and image interpretation for resource management. Forest Management Department, Oregon State University, Corvallis, Oregon.

REFERENCES: (Reserve shelf in Library)

Sayn-Wittgenstein, L. 1978. Recognition of tree species on aerial photographs. Forest Management Institute. Canadian Forestry Service. Information Report FMR-X-118.

Zsilinszky, V.G. 1966. Photographic interpretation of tree species in Ontario. Ontario Department of Lands and Forests.

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TOPIC NO.	PERIODS	TOPIC DESCRIPTION
UNIT I		
1	1	- Course introduction, description, evaluation and grading - Relevance of photogrammetric skills to forest technicians - History of aerial photography and applications
2	2	- Use of stereoscopes, testing for stereo vision and depth perception (Chapter 3)
3	2	- Geometry of a vertical aerial photograph (Chapter 2)
4	2	- Scale of a vertical aerial photograph (Chapter 4)
	1	TEST
UNIT II		
5	2	- Horizontal measurements, distances, azimuths and areas on aerial photos (Chapter 5)
	1	- Orienteering from aerial photographs
6	2	- Vertical measurements on aerial photos (Chapter 7)
7	1	- Basic principles and techniques of aerial photo interpretation (Chapter 13)
8	1	- Colour Infrared film and satellite imagery
	1	TEST
UNIT III		
9	3	- Tree species identification (Chapter 17)
10	1	- Forest stand delineation (Chapter 17)
11	3	- Use of Sketchmaster to transfer photo detail to maps (Chapter 10)
12	2	- Introduction to photography and the 35 mm camera
	1	TEST

PHOTOGRAMMETRY FOR 104-4

COURSE OBJECTIVES

<u>BENCHMARK NO.</u>	<u>DESCRIPTION</u>
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| 2967.01 | <ul style="list-style-type: none"> - Draw standard FRI and NTS map symbols, lines and lettering. - Determine and use map scale, principles of ratio and proportion and similar triangles. - Use and maintain drawing and lettering equipment. - Measure height, area, distance and direction on a photograph and map. - Order aerial photographs and maps. |
| 2968.01 | <ul style="list-style-type: none"> - Read maps and aerial photographs. |