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Course Name**I. COURSE DESCRIPTION:**

The objective of this course is to provide the student with skills relating to aerial photo interpretation. This will consist of tree species identification, glacial landform identification and ecosite classification. The delineation and identification of forested and non-forested polygons, as it relates to Ecological Land Classification and the Forest Resource Inventory( FRI) specifications, will be the main emphasis of this course.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

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

1. Understand the process of aerial photo interpretation.

Potential Elements of the Performance:

- Complete a stereo vision test and depth perception test using stereoscopes
- Show how photo interpretation is important to the management of forest resources.
- Students will be able to prepare photographs before stand typing
- Familiarize students with F.R.I. photo interpretation specifications.

2. Delineate and Identify Forested and Non Forested polygons

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Course NamePotential Elements of the Performance:

- The student will be able to identify, delineate and label wetland and non forested polygons
- Delineate forested polygons by differences in height, species, age, soil depth, soil texture and organic soils ,bed rock, slope, moisture and drainage .

3. Species Identification of Boreal and Great Lakes St. Lawrence tree species.

Potential Elements of the Performance:

- Identification of Conifers ( Black Spruce, Jack Pine, Cedar, White Pine, Red Pine, White Spruce, Tamarack, Balsam Fir, Hemlock )
- Identification of Boreal Hardwoods ( Trembling aspen, White Birch, Black Ash)
- Identification of Great Lakes St. Lawrence Hardwoods (Sugar Maple, Red Maple, Red Oak, Yellow Birch, White Ash, Basswood, White Elm )
- Use large scale air photos to identify tree species and other forest features such as crown vigour, crown spacing and shrub cover

4. Identify Glacial Landforms and Identify Ecosites on an aerial photograph.

Potential Elements of Performance

- Identify basic landforms (eskers, rock knobs, lacustrine plain, organic terrain). This will help determine soils type and depth.
- Understand and use Noegets maps (Northern Ontario)
- Identify ecosites on an aerial photograph using the OMNR Northwest Region's ecosite keys for interpretation.

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Course Name

5. Determine tree heights and crown closure on an aerial photograph.

Potential Elements of the Performance:

- Determine crown closure
- Determine tree heights by comparison of ground truth information

**TOPICS:**

**III.**

1. Identify forested and non-forested polygons.
2. Identification of conifers and hardwoods in the Boreal forest region and the Great Lakes St. Lawrence forest region.
3. Determination of ecosites from an aerial photograph. OMNR FRI specifications and the Ecological Land Classification System
4. Recognize and identify common physical landscape features on aerial photos( geomorphology)
5. Delineated forested and non forested areas on contact print 1:20000 aerial photos and identify the FRI working group

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Course Name**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

1. Staedtler grease pencils 108-9 black 108-2 red 108-3 blue
2. Desk lamp (optional, but recommended)
3. Metric scale
4. Q-tips
5. Rubbing alcohol
6. Make up pads or cotton balls
7. Pocket stereoscope
8. **Training manual** for photo interpretation of ecosites in Northwestern Ontario ( available at campus shop)

**Supplied by college on a loan basis**

**NOTE: During the semester students will be using original OMNR aerial photographs. Photographs which are damaged or lost will be replaced by the student at a cost of \$10.00/photo.**

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

Zsilinsky, V.G. 1966. Photographic Interpretation of tree species in Ontario. Ontario Department of Lands and Forests.

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Course Name**V. EVALUATION PROCESS**

Landform assignments	15%
Moraines	5%
Fluvial	5%
Lacustrian	5%
Landform test	10
Tree shapes test	3
GLSL/boreal stand ID	5
Boreal photo delineation	10
GLSL photo delineation	10
Photo species ID test	10
Ecosite photo ID test	5
Attendance and participation	12
Ecotyping open book	5
Ecological Land Class.	5
Final test	<u>10</u>
	100%

The following semester grades will be assigned to students in post secondary courses:

<b>Grade</b>	<b><u>Definition</u></b>	<b><u>Grade Point Equivalent</u></b>
A+	90 – 100%	4.00
A	80 – 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00

CR (Credit)	Credit for diploma requirements has been awarded.
S	Satisfactory achievement in field /clinical placement or non-graded subject area.
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.

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Course Name

X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

**VI.**Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

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 postsecondary institutions.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

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Course NameDisability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.



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Course NameElectronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of March will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.

Attendance and participation are important to ensure students meet learning outcomes in this course. Students may miss all or a portion of 2 scheduled 3 hour classes during this course without academic penalty. Further absence will result in a loss of 3 marks per absence up to a maximum of 12 marks. Students who are absent for part of or more than 6 classes will receive an F for their final grade.