

## Course Outline

<b>Course Title:</b>	Ecosystem Skills		
<b>Course Number:</b>	ECOS13	<b>Approval Date:</b>	2018/8/7
<b>Course Hours:</b>	60 hours	<b>Academic Year:</b>	2018
<b>Academic School:</b>	School of Environmental & Natural Resource Sciences		
<b>Faculty:</b>	Josh Feltham - josh.feltham@flemingcollege.ca		
<b>Program Co-ordinator or Equivalent:</b>	Thomas Luloff - thomas.luloff@flemingcollege.ca		
<b>Dean (or Chair):</b>	Tania Clerac - Tania.Clerac@flemingcollege.ca		

## Course Description

This course will focus on three areas of study: identification, field and lab skills. Students will identify and classify the living and non-living components of the specific ecosystems described in the Ecology and Environment (ENVR 20) course. Field skills to be developed include the ability to navigate through the natural environment and use a variety of ecosystem inventory techniques. Special emphasis will be placed on safe work habits in lab and field.

**Prerequisites:** None.

**Corequisites:** None.

## Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Follow the prescribed lab and field health and safety guidelines and protocols in order to create a safe work environment for course activities.
2. Collect and record data and observations using a standardized protocol (SCAN: Specific, Complete, Accurate, Neat).
3. Operate specific instruments or equipment in order to perform given tasks in both field and laboratory settings.
4. Identify specific examples from the following categories: rocks, minerals, fish, trees, birds, mammals, amphibians, and reptiles; in order to survey and/or monitor populations and habitat.
5. Use a compass and Global Positioning Systems (GPS) under field conditions.

6. Identify specific drilling equipment and methods that can be used to address resources drilling needs in a variety of ecosystems.
7. Use aerial photography to identify objects and calculate scale, distance and area and to determine azimuths.

N.A.

## Learning Resources

Required:

Ecosystem Skills Manual. (Purchased from bookstore)

Fleming College. (2015). Components of Common First Semester resource kit.

## Assessment Summary

Assessment Task	Percentage
Labs	16%
Assignments	3%
Presentations	10%
Tests	71%

## Student Success: Policies and Procedures

Mutually, faculty and learners will support and adhere to college Academic Regulations, and Student Rights and Responsibilities. The following policies and guidelines have been developed to support the learning process.

Please click on the link for information about:

- [Academic Integrity \(2-201A\)](https://department.flemingcollege.ca/hr/attachment/7750/download)  
(<https://department.flemingcollege.ca/hr/attachment/7750/download>)
- [Accessibility for Persons with Disabilities \(3-341\)](https://department.flemingcollege.ca/hr/attachment/5619/download)  
(<https://department.flemingcollege.ca/hr/attachment/5619/download>)
- [Grading and Academic Standing \(2-201C\)](https://department.flemingcollege.ca/hr/attachment/7752/download)  
(<https://department.flemingcollege.ca/hr/attachment/7752/download>)
- [Guidelines for Professional Practice: Students and Faculty](https://flemingcollege.ca/PDF/guidelines-for-professional-practice-students-faculty.pdf)  
(<https://flemingcollege.ca/PDF/guidelines-for-professional-practice-students-faculty.pdf>)
- [Student Rights and Responsibilities \(5-506\)](https://department.flemingcollege.ca/hr/attachment/269/download)  
(<https://department.flemingcollege.ca/hr/attachment/269/download>)

**Alternate accessible formats of learning resources and materials will be provided, on request.**

## Program Standards

The Ministry of Training, Colleges and Universities oversees the development and the review of standards for programs of instruction. Each college is required to ensure that its programs and program delivery are consistent with these standards, and must assist students to achieve these essential outcomes.

This course contributes to Program Standards as defined by the [Ministry of Training, Colleges and Universities](#) (MTCU). Program standards apply to all similar programs of instruction offered by colleges across the province. Each program standard for a postsecondary program includes the following elements:

- **Vocational standards** (the vocationally specific learning outcomes which apply to the program of instruction in question);
- **Essential employability skills** (the essential employability skills learning outcomes which apply to all programs of instruction); and
- **General education requirement** (the requirement for general education in postsecondary programs of instruction that contribute to the development of citizens who are conscious of the diversity, complexity and richness of the human experience; and, the society in which they live and work).

Collectively, these elements outline the essential skills and knowledge that a student must reliably demonstrate in order to graduate from the program. For further information on the standards for your program, follow the MTCU link ([www.tcu.gov.on.ca/pepg/audiences/colleges/progstan/](http://www.tcu.gov.on.ca/pepg/audiences/colleges/progstan/))

## Detail Plan

**Term:** 2018 Fall **Session Code:** CFS

**Faculty:** Brian Gerry - [brian.gerry@flemingcollege.ca](mailto:brian.gerry@flemingcollege.ca)  
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**Dean (or Chair):** Tania Clerac - [Tania.Clerac@flemingcollege.ca](mailto:Tania.Clerac@flemingcollege.ca)

## Learning Plan

Wks/Hrs Units	Topics, Resources, Learning, Activities	Learning Outcomes	Assessment
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<b>Wks/Hrs Units</b>	<b>Topics, Resources, Learning, Activities</b>	<b>Learning Outcomes</b>	<b>Assessment</b>
Week 1 Classes Begin	LEC: Course Orientation & Geology (Rocks & Minerals) No LAB or GLH during Orientation week Online: Safety Module (D2L)	1,2	Safety Module 8% (D2L)
Week 2	LEC: Drilling & Blasting LAB: Rocks & Mineral ID, Rock Lab GLH: Rock & Mineral Activity	1,2,3,4	Rock Lab 3% (In Lab)
Week 3	LEC: Compassing/Orienteering LAB: Geotechnical, Waterwell Drilling GLH: Rock & Mineral Test	1,2,3,4,5,6	Mineral Test 5% (Bio-Commons)
Week 4	LEC: Biological Measurement LAB: Working with Map & Compass Pacing/Compassing GLH: Practice compassing & Chaining SDL: Drilling Pre-Test/Practice	1,2,3,5	
Week 5	LEC: Photogrammetry LAB: Forest Measurement GLH: Forest Measurement Activity D2L Testing: Drilling & Safety Test	1,2,3,5,7	Forest Measurement Lab 5% (In Lab) Drilling & Safety Test 5% (D2L)
Week 6	LEC: Dendrology LAB & GLH: Photogrammetry	1,2,3,5,7	Photogrammetry 5% (In Lab)
Week 7	NO LECTURE: ONLINE - PowerPoint and Presentations in preparation for Week 10 and 11 LAB & GLH: Field Day Practical Testing	1,2,3,5,7	Compassing & Forest Measurement Practical Test 10% (Field Day)
Week 8	Program Oriented, self-directed studies/field activities Read Week 9 Lecture & Lab Notes Work on Power Point Presentations for Weeks 10 & 11	4	

<b>Wks/Hrs Units</b>	<b>Topics, Resources, Learning, Activities</b>	<b>Learning Outcomes</b>	<b>Assessment</b>
Week 9	LEC: Bird ID LAB: Summer & Winter Tree ID GLH: Study Period for Tree ID	2,4	
Week 10	LEC: Mammal ID LAB: Bird ID; Bird Presentations GLH: Team Skills Demo; Study Period for Tree ID	2,3	Bird Presentation 5% (In Lab); Team Skills Showcase 5% (In Lab)
Week 11	LEC: Fish ID & Anatomy LAB: Mammal ID; Mammal Presentations GLH: Tree ID Practice; Tree ID Test	2,4	Mammal Presentation 5% (In Lab); Tree Test 5% (Bio-Commons)
Week 12	LEC: Amphibian & Reptile ID LAB: Fish ID Exercise SDL: Fish ID Practice online D2L Testing: Birds & Mammals ID Test	2,4	Birds & Mammals ID Test 5% (D2L)
Week 13	LEC: Skills Competition Primer LAB: Amphibian & Reptile ID GLH: Skills Demo Practice D2L Testing: Fish ID Test	1,2,3,4	Fish Test 5% (D2L) Skills Showcase Practice 4% (In Lab)
Week 14	LEC: No lecture LAB: Skills Showcase - First Attempt	1,2,3,4	Skills Showcase - First Attempt - 25% (In Lab)
Week 15	LEC: No Lecture LAB: Skills Showcase - Second Attempt	1,2,3,4	Skills Showcase - Second Attempt (if a passing grade of 50% was not achieved on first attempt) maximum value = 19% (In Lab)

## Assessment Requirements

<b>Assessment Task</b>	<b>Date/Weeks</b>	<b>Course Learning Outcome</b>	<b>Percentage</b>
Week 1 - Complete on D2L before your week 2 lab	Safety Module	1,2	8%
Week 2 Lab	Rock Lab	1,2,3,4	3%
Week 3 GLH	Rock & Mineral Test	4	5%

<b>Assessment Task</b>	<b>Date/Weeks</b>	<b>Course Learning Outcome</b>	<b>Percentage</b>
Week 5 Lab	Forest Measurement	1,2,3,5	5%
Week 5 GLH (D2L)	Drilling Test	6	5%
Week 6	Photogrammetry	7	5%
Week 7	Field Day - Compassing & Forest Measurement	5	10%
Week 10 Lab (Powerpoint)	Bird Presentation	4	5%
Week 10 Lab - practical skills review and demonstration	Team Skills Showcase	1,2,3,4,5,6,7	5%
Week 11 Lab (Powerpoint)	Mammal Presentation	4	5%
Week 11 GLH in Biocommons	Tree Test	4	5%
Week 12 (D2L)	Birds & Mammals Test	4	5%
Week 13 (D2L)	Fish Test	1,2,3,4	5%
Week 13 Lab	Skills Showcase Practice	4	4%
Week 14 Lab; If a passing score of 50% is not achieved, a retest will be completed in week 15. If a second attempt is required the maximum value of this assessment will be adjusted to 19% of the total grade in the course.	Skills Showcase	1,2,3,4,5,6,7	25%

The Skills Showcase is the only MANDATORY assessment in this course.

The Skills Showcase is a competency test that all students MUST PASS.

#### ID Tests and 80% Accuracy

- All ID tests will be marked based on an expected level of 80% accuracy.
- If students do not achieve 80% accuracy, the mark posted for that ID test will be 49% or less.
- All students who do not pass ID tests will have one (1) opportunity to rewrite and achieve a maximum grade of 75 %.
- All students wishing to rewrite must sign up via D2L no later than 5 PM on the Monday preceding the rewrite

- Rewrites will be scheduled for the common hour during the week following the initial test unless otherwise specified.

## Exemption Contact

Josh Feltham, Course Leader, Room 213

Phone: (705) 324-9144 x 3044

## Prior Learning and Assessment and Recognition (PLAR)

PLAR uses tools to help learners reflect on, identify, articulate, and demonstrate past learning which has been acquired through study, work and other life experiences and which is not recognized through formal transfer of credit mechanisms. PLAR options include authentic assessment activities designed by faculty that may include challenge exams, portfolio presentations, interviews, and written assignments. Learners may also be encouraged and supported to design an individual documentation package that would meet the learning requirements of the course. Any student who wishes to have any prior learning acquired through life and work experience assessed, so as to translate it into a college credit, may initiate the process by applying through the Registrar's office. For more information please click on the following link: <http://flemingcollege.ca/admissions/prior-learning-assessment-and-recognition>

## Course Specific Policies and Procedures

It is the responsibility of the student to retain this course outline for future reference. Course outlines may be required to support applications for advanced standing and credit transfer to other educational institutions, portfolio development, PLAR and accreditation with professional associations.

1. Skills Showcase is a **MANDATORY** competency test **ALL** students must complete **AND PASS** with a mark of at least **50%**.

- A final overall course grade of 50% **AND** a **MINIMUM** score of 50% in the Skills Showcase are required for students to pass this course.
- A final grade of 50% **AND** a score of **LESS THAN 50%** on the Skills Showcase will result in the student having to re-attempt the assessment in week 15
- The maximum value of the assessment if attempted twice will be adjusted from 25% to 19% to reflect the additional time taken to prepare
- **Failing to pass the skills showcase after two attempts will result in the student having to repeat the entire course regardless of their average grade in other assessments.**

2. Assessments

ID Tests and 80% Accuracy Requirement

- All ID tests will be marked based on an expected level of 80% accuracy.

- If students do not achieve 80% accuracy, the mark posted for that ID test will be 49% or less.
- All students who do not pass ID tests will have one (1) opportunity to rewrite and achieve a maximum grade of 75 %.
- All students wishing to rewrite must sign up via D2L no later than 5 PM on the Monday preceding the rewrite
- Rewrites will be scheduled for the common hour during the week following the initial test date

### 3. Student Attire for Field Work and Field Trips:

- Appropriate attire, as determined by the course professor, is mandatory for field trips and field exercises.
- Scheduled field exercises are usually conducted regardless of weather conditions.
- For more specific information on requirements, please see the course outline or the professor responsible.

### 4. Class Attendance and Assignments:

- Attendance at all classes is strongly recommended.
- Regular class attendance is a key factor in students' success.
- Students must attend lecture, labs, and tests with their own group, to accommodate room timetabling and class size, unless prior arrangements have been made with a completed and signed Student Request Form.

#### 4.1 Scheduling

- Rescheduling of course topics and evaluations may be necessary when unforeseen circumstances arise.
- Changes will be discussed and mutually agreed to in class.

#### 4.2 Missed Field Trips and Field Exercises:

- Students must consult with the lab professor about any possible alternate arrangements for field trips and exercises missed.
- However, there is no guarantee that alternative arrangements can be made.
- Advance notice of absence may result in greater accommodation.

#### 4.3 Missed Classes:

- It is the student's responsibility to get caught up from missed classes.
- The course manual contains all the notes required for the course
- Students are expected to keep themselves up-to-date on course material
- Please contact the course faculty only if notes and assignments are unavailable from classmates.

#### 4.4 Evaluation Criteria

- All assignments will be graded on the basis of content, style, structure, and mechanics.

#### 4.5. Final grades

- In this course, final grades are assigned based on the level of academic achievement which corresponds to the assessment components as cited in this course outline.
- Faculty member(s) will not offer additional evaluation activities beyond those cited in this course outline.

#### ACADEMIC BEHAVIOUR AND ACADEMIC INTEGRITY

- You, as a Fleming student, will conduct yourself in a courteous, responsible fashion.
- You are expected to work individually on assignments unless otherwise directed. Breaches of academic integrity such as plagiarism will result in a mark of zero (0) for the evaluated activity and will be reported in writing to the Registrar.
- You have the responsibility to support academic integrity.
- Please refer to your student handbook for the specific college regulations governing academic behaviour and academic integrity.
- Cell phone use is not allowed in the classroom unless it is required as part of the learning activity and identified as such by the course instructor.

#### **Common First Semester Assessment Guidelines**

##### **Additional Assessment Comments:**

- Tests/in-class assessments are submitted electronically or on the paper copied given in class while following the specific instructions of the professor/technologist.
- Any student who talks, is disruptive, is disrespectful, is suspected of cheating during a test/in-class assessment will have their test/in-class assessment removed and will be assigned a grade of 0. Further penalties can be applied as per the Fleming College Student Rights and Responsibilities document.
- Students must complete all of the mandatory assessments (if applicable) for the course to meet the learning outcomes and achieve a passing grade in the course.
- In this course, final grades are assigned based on the level of academic achievement which corresponds to the assessment components and due dates as cited in this course outline. Faculty member(s) will not offer additional evaluation activities beyond those cited in this course outline.

Please note the following circumstances where accommodation for **missed or late** assessments (tests/quizzes/in-class assessments/proctored assessments/submitted assignments) will/will not be given:

If circumstances arise that prevent attendance for an assessment in the student's assigned section; it is the student's responsibility to notify faculty at least 24 hours in advance for any documented reasons

(court appearance, scheduled medical appointment etc). Early notification may result in greater accommodation.

If a student misses an assessment for an emergency situation, the student must notify faculty within 24 hours of the starting time for the assessment. If the student can provide DOCUMENTED support and rationale for missing the assessment, the student will be accommodated to complete the assessment at an alternate time for the full value of the assessment or provided with an alternate mechanism as per faculty discretion. Faculty reserves the right to decide on what constitutes appropriate documentation.

If a student fails to provide documentation and does not communicate with the faculty within 24 hours of the missed assessment, the **student is assigned a grade of 0 for the assessment**. However, the student can still attempt the assessment and receive informal feedback from faculty while still achieving a grade 0.