Environmental Technology

Fall, 2017

ENVT 252A - Regional Plant Identification
3 Credits, 2 hours lecture and 2 hours lab per week

This course covers identification and classification of native vascular plants, bryophytes, and lichens. Topics include plant identification, taxonomy, species concept, morphology, sampling, pressing, mounting, plant collections, voucher sets, herbarium specimens, and relevant resource material. A plant collection is required.

Instructor

Dr. David Smith
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780-791-4997
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Office Hours

Monday, Tuesday, Wednesday and Thursday 12:00 PM – 12:50 PM
Friday 11:00 AM – 11:50 AM

Hours of Instruction

Lecture: Friday 1:00 PM – 2:50 PM

Laboratory: Tuesday 2:00 PM – 3:50 PM

Required Resources

Bidlack, J. and S. Jansky. 2014. Stern's Introductory Plant Biology with Lab Manual. McGraw-Hill Higher Education, 13th Edition, ISBN-10: 0077976266

Johnson, D., L. Kershaw and A. MacKinnon. Plants of the western forest. Lone Pine Publishing Edmonton, Alberta ISBN-10:1-55105-844-8

Full outdoor apparel for fall and winter weather including suitable footwear

Course Outcomes

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

- Collect, identify and mount plant specimens from diverse taxa emphasizing local flora
- Practice keying plants using a variety of information sources,
- Demonstrate familiarity with local plants especially with regard to identification, morphology, plant life cycles, and evolutionary history using oral presentations and written work,
- Work effectively in groups by managing group projects such as plant collections and oral presentations.

Evaluation

Plant collection	25% due week of December 4
Assignments -	15% due one week after each lab
Oral presentation	10% due week of November 27
Midterm Exam -	15% week of October 17
Final Exam -	35%
Total	100%

A grade of C- is required for progression or transfer.

Grading System

Descriptor	Alpha Grade	4.0 Scale	Percent	Rubric for Letter Grades
Excellent	A+	4.0	> 92.9	Work shows in-depth and critical analysis, well developed ideas, creativity, excellent writing, clarity and proper format.
	A	4.0	85 – 92.9	
	A-	3.7	80 – 84.9	
Good	B+	3.3	77 – 79.9	Work is generally of high quality, well developed, well written, has clarity, and uses proper format.
	B	3.0	74 – 76.9	
	B-	2.7	70 – 73.9	
Satisfactory **Progression**	C+	2.3	67 – 69.9	Work has some developed ideas but needs more attention to clarity, style and formatting.
	C	2.0	64 – 66.9	
	C-	1.7	60 – 63.9	
Poor **Minimum Pass**	D+	1.3	55 – 59.9	Work is completed in a general way with minimal support, or is poorly written or did not use proper format.
	D	1.0	50 – 54.9	
Failure	F	0.0	< 50	Responses fail to demonstrate appropriate understanding or are fundamentally incomplete.

Proposed Schedule of Topics

LECTURES AND LABORATORIES, ENVT 252, FALL 2017

Week of Sep 4	Introduction	NO LAB
Week of Sep 11	Science of taxonomy	LAB 1 Bryophytes and liverworts
Week of Sep 18	Mosses	LAB 2 Fungi and lichens
Week of Sep 25	Fungi, lichens, liverworts	LAB 3 Horsetails, Clubmosses, Ferns
Week of Oct 2	Seedless vascular plants	LAB 4 Gymnosperms
Week of Oct 9	Gymnosperms	LAB 5 Angiosperms
Week of Oct 16	Angiosperms	LAB 6 Roots, stems and leaves
Week of Oct 23	Fruit ID	LAB 7 Plant Collection (introduction)
Week of Oct. 30	Wildflower ID	LAB 8 Plant Collection (forbs)
Week of Nov 6	Shrub and Tree ID	No Lab – Holiday Plant Collection
Week of Nov 13	Sedge, rush and grass ID	LAB 9 Plant Collection (trees/shrubs)
Week of Nov 20	Plant Collection	LAB 10 Plant Collection (graminoids)
Week of Nov. 27	Plant Collection	LAB 11 Plant Collection
Week of Dec 4	Plant Collection	LAB 12 Plant collection (submission deadline)

Please Note:

Date and time allotted to each topic is subject to change.

Performance Requirements

Student Responsibilities

It is your responsibility as a student to contact the Office of the Registrar to complete the forms for Withdrawal or Change of Registration, and any other forms. Please refer to the list of important dates as noted in the Academic Schedule in the Keyano College credit calendar.

More specific details are found in the Student Rights and Student Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Student Code of Conduct Policies.

Laboratory Safety

In the science laboratories, safety is important.

Students must complete the *WHMIS for Students* online training course on Moodle before entering the science laboratories.

Students must comply with the mandatory laboratory safety rules for this course as provided in the laboratory manual. Failure to do so will result in progressive discipline such as a verbal warning, refused entry into the laboratory, or suspension from the College.

Student Attendance

Class attendance is useful for two reasons. First, class attendance maximizes a students' learning experience. Second, attending class is a good way to keep informed of matters relating to the administration of the course (e.g., the timing of assignments and exams). Ultimately, you are responsible for your own learning and performance in this course.

It is the responsibility of each student to be prepared for all classes. Students who miss classes are responsible for the material covered in those classes and for ensuring that they are prepared for the next class, including the completion of any assignments and / or notes that may be due.

Academic Misconduct

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:

- Plagiarism or the submission of another person's work as one's own
- The use of unauthorized aids in assignments or examinations (cheating)
- Collusion or the unauthorized collaboration with others in preparing work
- The deliberate misrepresentation of qualifications
- The willful distortion of results or data
- Substitution in an examination by another person
- Handing in the same unchanged work as submitted for another assignment
- Breach of confidentiality.

The consequences for academic misconduct range from a verbal reprimand to expulsion from the College. More specific descriptions and details are found in the Student Rights and Student Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Student Code of Conduct Policies.

In order to ensure your understanding of the concept of plagiarism, you must successfully complete the online tutorial found on ilearn.keyano.ca. Then print the certificate, sign it, and show it to each of your instructors. Your course work will not be graded until you show this signed certificate.

Specialized Supports

Counselling and Accessibility Services

Counselling Services provides a wide range of specialized counselling services to prospective and registered students, including personal, career and academic counselling.

SKILL Centre

The SKILL Centre is a learning space in the Clearwater Campus at Keyano College where students can gather to share ideas, collaborate on projects and get new perspectives on learning from our tutorial staff.

The SKILL Centre, through a variety of delivery methods, provides assistance in skill development to Keyano students. Assistance is provided by instructors, staff and student tutors. Individuals wishing to improve their mathematics, writing, grammar, study, or other skills, can take advantage of this unique service.

Authorization

This course outline has been reviewed and approved by the Program Chair.

Dr. David Smith, Instructor

Louis Dingley, Chair   Date Authorized

Dr. Vincella Thompson, Dean   Date Authorized

Signed copies to be delivered to:
Instructor
Registrar's Office