



**Course Outline**

**ENVIRONMENTAL TECHNOLOGY**

**ENVT 252A  
Regional Plant Identification  
Fall Semester, 2013**

**3 CREDITS  
2 HOURS LECTURE, 2 HOURS LAB PER WEEK**

**INSTRUCTOR: Dr. David Smith**

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**PHONE NUMBER:** (780) 791-4997  
**E-MAIL:** david.smith@keyano.ca  
**OFFICE NUMBER:** S209B  
**OFFICE HOURS:** Monday and Tuesday: 12:00 – 12:50  
Wednesday to Friday: 11:00 – 11:50

**HOURS OF INSTRUCTION:**

Tuesday	10:00 – 11:50 AM	Room S110
Thursday (Lab)	2:00 – 3:50 PM	Room S114

**COURSE DESCRIPTION:**

An examination of plant diversity in western Canada with a focus on the boreal forest of northern Alberta. Identification skills gained in this course will rely on the integration of information from the field, lecture and laboratory in plant taxonomy, plant anatomy, plant physiology and plant ecology. Students are required to submit a plant collection of approximately 100 specimens. An oral presentation on an applied topic related to botany in western Canada is required.

**PRE-REQUISITE(S):**

BIOL 108

**COURSE OUTCOMES:**

The student 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.

**REQUIRED RESOURCES:**

Bidlack, J. and S. Jansky. 2010. Stern's Introductory Plant Biology. McGraw-Hill Higher Education, 12th Edition, ISBN-10: 0073040525.

Bidlack, J. Laboratory manual to accompany Stern's Introductory Plant Biology, McGraw-Hill Higher Education, 12th Edition, ISBN-9780073040530/0073040533

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

**TOPICS TO BE COVERED:****Please Note:**

This course outline may be modified to facilitate unforeseen time constraints. Date and time allotted to each topic is subject to change.

**LECTURES AND LABORATORIES, ENVT 252, FALL 2013**

Week of Sep 2	Introduction	NO LAB
Week of Sep 9	Science of taxonomy	LAB 1 Roots, stems and leaves
Week of Sep 16	Mosses	LAB 2 Bryophytes and liverworts
Week of Sep 23	Fungi, lichens, liverworts	LAB 3 Fungi and lichens
Week of Sep 30	Seedless vascular plants	LAB 4 Horsetails, Clubmosses, Ferns
Week of Oct 7	Gymnosperms	LAB 5 Gymnosperms
Week of Oct 21	Angiosperms	LAB 6 Angiosperms
Week of Oct 28	Fruit ID	LAB 7 Plant Collection (introduction)
Week of Nov 4	Wildflower ID	LAB 8 Plant Collection (forbs)
Week of Nov 11	Shrub and Tree ID	LAB 9 Plant Collection (trees/shrubs)
Week of Nov 18	Sedge, rush and grass ID	LAB 10 Plant Collection (graminoids)
Nov 25	Plant Collection	LAB 11 Plant Collection
Week of Dec 2	Plant Collection	LAB 12 Plant collection (submission deadline)

**MOODLE**

Go to <http://ilearn.keyano.ca>

This course is supported through Moodle. Assignments, readings and handouts will be posted on Moodle. Login information will be provided by your instructor. For further instructions please see the Moodle handout.

**EVALUATION:**

Assignment	Percentage	Due Date
Assignments, 10 labs @2.5%	25%	Each week
Plant Collection	20%	December 2, 2013
Oral presentation	10%	December 2, 2013
Midterm	15%	October 14, 2013
Final Examination	30%	December 9-18, 2013

**GRADING SYSTEM:**

Letter Grade	Description	Grade Points
A+		4
A	Excellent	4
A-		3.7
B+		3.3
B	Good	3
B-		2.7
C+		2.3
C	Satisfactory	2
C-		1.7
D+		1.3
D	Minimal Pass	1
F	Failure	0

Students intending to transfer to other institutions should strive for a 'C-' as a minimum. Transfer information on each course is available at the [Alberta Council on Admission and Transfers](#).

**NOTES:**

Please dress appropriately for the weather on any field trips! Proper footwear is important. If the weather does not co-operate, the lab schedule will shift.

Individual components of the course will be given a numerical mark. The grading system will be applied using a combination of absolute achievement and relative standing in the class.

**MISSED TERM EXAM OR LABS:**

A student who cannot write a term examination or complete a lab assignment due to incapacitating illness, severe domestic affliction or other compelling reasons can apply to have the weight of the missed midterm transferred to the final. All attempts should be made to make up missed labs. Missed labs with no attempts to complete the work will be assigned a “0”. You must notify the instructor of a missed midterm or lab assignment within 48 hours. Deferral of term work is a privilege and not a right; there is no guarantee that a deferral will be granted. Misrepresentation of Facts to gain a deferral is a serious breach of the Code of Student Behaviour.

**CELL PHONES:** Cell phones and other electronic devices are to be turned off during class times. If you need to use one, leave the room. If you have to text someone, leave the room.

**STUDENTS WITH DISABILITIES:** Students who require accommodation in this course due to a disability are advised to discuss their needs with counsellors in the Registrar’s office . Please ensure that the required forms for exams are submitted to the instructor **one week** before the date of midterms or **by the last lecture class** for the final exam.

**SKILL CENTRE:** Students who require additional help in developing strategies for better time management, study skills or examination skills should contact the Keyano College Skill Centre.

**Disclaimer:** Any typographical errors in this Course Outline are subject to change and will be announced in class. The date of the final examination is set by the Registrar.

**Note:** Recording is permitted only with the prior written consent of the instructor or if recording is part of an approved accommodation plan.

*Students should consult:*

<http://www.keyano.ca/Academics/Examinations>

**IMPORTANT DATES:**

September 4, 2013	First day of classes
September 17, 2013	Courses dropped after this date will be designated “W”. (A withdrawal (W) is not reflected in your GPA.
October 25, 2013	Courses dropped after this date will be designated “WF”. (A withdrawal failure (WF) counts as a 0 in your GPA).
December 6, 2013	Last day of classes
December 9-18, 2013	Final Exams

## COLLEGE POLICIES

### Equality, Equity and Respect

The Keyano College is committed to providing an environment of equality, equity and respect for all people within the College community. All members of this community are considered partners in developing teaching and learning contexts that are welcoming to all. Faculty, staff, and students are encouraged to use inclusive language to create a classroom atmosphere in which students' experiences and views are treated with equal respect and valued in relation to their gender, ethnic and cultural background, and sexual orientation.

*Students should consult:*

<http://www.keyano.ca/StudentLife/StudentConduct/IndividualRightsPolicy>

### Plagiarism and Cheating

Every student expects to be treated and evaluated fairly in a course. Plagiarism and cheating robs everyone of this right.

No student may submit words, ideas or data of another student or person as his or her own in any writing, project, assignment, quiz, electronic presentation, exam etc. Any work used that is not the student's own must be clearly cited as belonging to someone else. There are penalties for using other's work and not citing it. The Student's Rights & Responsibilities document clearly outlines these penalties and the appeal process.

- No learner can obtain information from another student during an exam.
- No learner can bring unauthorized information (paper or electronic) into an exam or quiz.
- No student can submit work done in another course for grading in this course without the written prior approval of the course instructor.
- No student can submit copyright protected or commercially produced materials as part or all of an assignment without proper citation & permission.

### Student Rights & Responsibilities

Students should consult the Keyano College Credit Calendar or online at:

<http://www.keyano.ca/Academics/CreditCalendar>

### Specialized Supports and Duty to Accommodate

*Disability Support Services: Learner Assistance Program*

If you have a documented disability or you think that you would benefit from some assistance from a Disabilities Counsellor, please call or visit the Disability Supports Office 780-792-5608 to book an appointment (across from the library). Services and accommodations are intended to assist you in your program of study, while maintaining the academic standards of Keyano College. We can be of assistance to you in disclosing your disability to your instructor, providing accommodations, and supporting your overall success at Keyano College.

*Specialized Supports and Duty to Accommodate*

Specialized Support and Duty to Accommodate are aligned with the office of Disability Support Services: Learner Assistance Program (LAP) guided by federal and provincial human rights legislation, and defined by a number of Keyano College policies. Keyano College is obligated by legislation to provide disability-related accommodations to students with identified disabilities to the point of undue hardship.



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**David Smith, Instructor**

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**Date**

**Reviewed and approved by:**

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**Louis Dingley, Chair**

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**Date**

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**Guy Harmer, Dean**

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**Date**