

Environmental Technology

Winter, 2020

ENVT 270 Wildlife Conservation and Management

3 Credits, 3 hours lecture 1 hour tutorial per week

The course provides students with a synthesis of wildlife and range ecology, conservation and management with a focus on the requirements of the oilsands industry within industrial, urban, rural, wilderness and agricultural environments. Both game and non-game species in terrestrial and aquatic environments are considered. Specific topics addressed include: population biology; wildlife/habitat relationships; herbivory and predation; behavioral ecology; competition; parasites and pathogens; population sampling; conservation biology and management techniques. Field trips are required.

Prerequisites BIOL 108

Instructor

Dr. David Smith
S209B
780-791-4997
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Office Hours

Monday to Friday 12:30 – 1:20
All office hours are in S209B

Hours and Location of Instruction

Monday, Thursday 11:00 – 12:20 Room S214
Friday 1:30 – 2:20 Room S210

Required Resources

Textbook title, Krausman, P.R. and J. W. Cain, III. 2013. Wildlife Management and Conservation. John Hopkins University Press. Baltimore. ISBN 978-1-4214-0986-3
Other supplies

Course Outcomes

The student will be able to:

- Collect, analyze and interpret ecological data on wildlife and wildlife habitat in the oilsands region.
- Synthesize information from numerous disciplines on a variety of issues related to wildlife management in Alberta, across Canada and world-wide, especially with regard to wildlife/habitat relationships, range management, wildlife and range ecology, wildlife management techniques and policy.
- Demonstrate a thorough understanding of wildlife population dynamics and population genetics by presenting an oral presentation and by submitting scientific writing assignments

Evaluation

Clearly outline what students must do in order to pass or complete the course.

Research project	5%, due week of March 25
Assignments	5%, due each week
Oral Presentation	10%, due three weeks before final exams
Term Paper	15%, due three weeks before final exams
Midterm Exam	25%, week of February 25
Final Exam	40%, week of April 15
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 (week of:)

Jan. 7	History of wildlife management and policy – Chapters 1 and 2
Jan. 14	Cover – Chapter 15
Jan. 21	Food – Chapter 11
Jan. 28	Soils – Chapter 15
Feb. 4	Range ecology – Chapter 15
Feb. 11	Midterm and introduction to wildlife research project
Feb. 25	Range inventory and monitoring – Chapter 14
Feb. 25	Range multiple use – Chapter 19
Mar. 4	Census and sampling techniques: direct and indirect methods
Mar. 11	Field Trips – wildlife research project
Mar. 18	Wildlife research project and oral presentations
Mar. 25	Species interactions: water, wildlife and aquatic environments – Chapter 12
April 1	Population dynamics and population genetics: bison in Wood Buffalo National Park – Chapters 7, 8
April 8	Hunting, trapping and predation and predator management – Chapters 9, 13

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 and therefore 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.

Before entering the lab, students are responsible reviewing the lab manual and relevant Safety Data Sheets for the purpose of evaluating risks associated to health. Some hazards used in the laboratory may have additional risks to those with pre-existing medical conditions.

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

The Student Academic Support Services (SASS) department: Accessibility Services, Skill Centre and Wellness Services, work together to support student success at Keyano College.

Accessibility Services (CC167) supports student success through group and individualized instruction of learning, study and test taking strategies, and adaptive technologies. Students with documented disabilities, or who suspect a disability, can meet with the Learning Strategists to discuss accommodation of the learning barriers that they may be experiencing. Students who have accessed accommodations in the past are encouraged to visit our office at their earliest opportunity to discuss the availability of accommodations in their current courses. Individual appointments can be made by calling 780-791-8934

Skill Centre (CC119) provides a learning space where students can gather to share ideas, collaborate on projects and get new perspectives on learning from our tutorial staff. Students visiting the centre have access to one-to-one or group tutoring, facilitated study groups, and assistance in academic writing. The Skill Centre's Peer Tutor program provides paid employment opportunities for students who have demonstrated academic success and want to share what they have learned. Tutoring is available free to any students registered at Keyano College on a drop in basis, from 9:00 am to 5:00 pm Monday through Friday. Additional evening hours are subject to tutor availability and are posted in the Skill Centre.

Wellness Services (CC260) offers a caring, inclusive, and respectful environment where students can access free group and individual support to meet academic and life challenges. Mental Health Coordinators offer a safe and confidential environment to seek help with personal concerns. The Mindfulness Room in CC260 is available as a quiet space for students to relax during regular office hours. Wellness Service welcomes students to participate in any of the group sessions offered throughout the academic year addressing such topics as Mindfulness and Test Anxiety. Individual appointments can be made by calling 780-791-8934.

Please watch your Keyano email for workshop announcements from our Student Academic Support Services team.