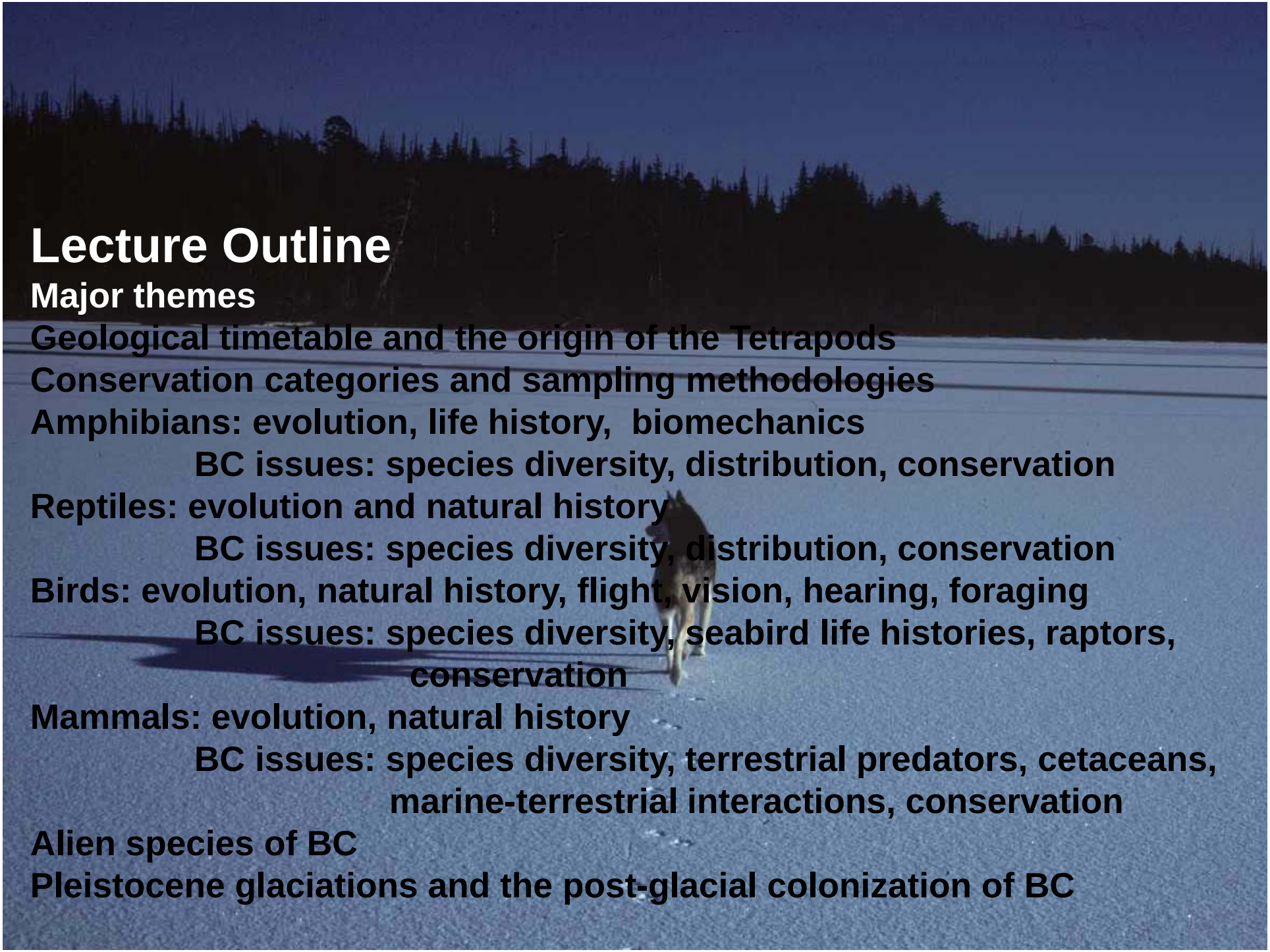
- **BIOLOGY 329 January 2015**
- **(20296)**
- **Biology of the Vertebrates of British Columbia**

- **Instructor: Dr. T. E. Reimchen, Cunn 056**
- **Lectures: Tues, Wed, Fri 1330-1420. ECS 116**

Lab. Coordinator: Dr. N. Winchester, Ph. 721-7099, winchest@uvic.ca ,
Labs: Cunn 228



Lecture Outline

Major themes

Geological timetable and the origin of the Tetrapods

Conservation categories and sampling methodologies

Amphibians: evolution, life history, biomechanics

BC issues: species diversity, distribution, conservation

Reptiles: evolution and natural history

BC issues: species diversity, distribution, conservation

Birds: evolution, natural history, flight, vision, hearing, foraging

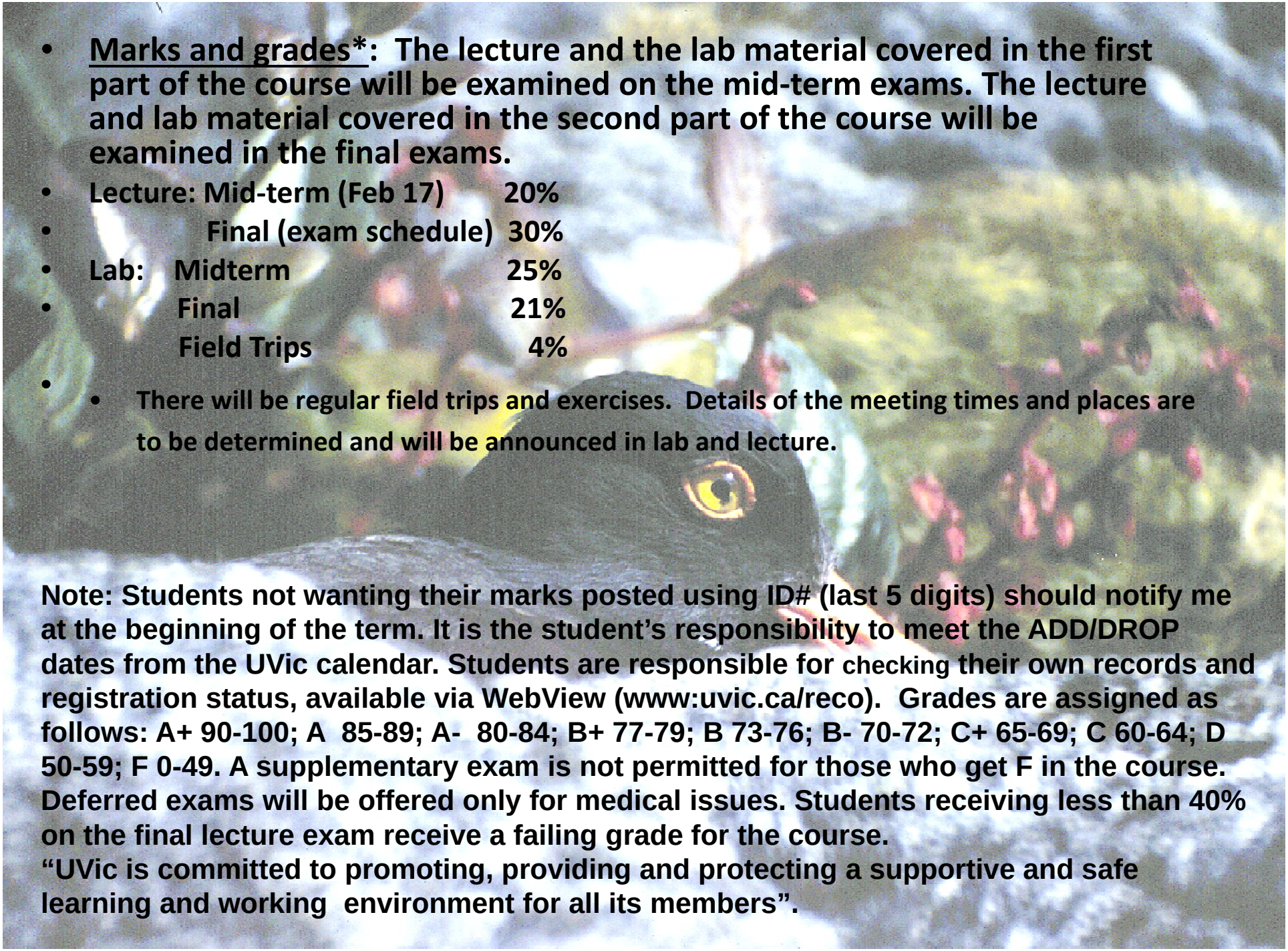
BC issues: species diversity, seabird life histories, raptors, conservation

Mammals: evolution, natural history

BC issues: species diversity, terrestrial predators, cetaceans, marine-terrestrial interactions, conservation

Alien species of BC

Pleistocene glaciations and the post-glacial colonization of BC



- **Marks and grades*: The lecture and the lab material covered in the first part of the course will be examined on the mid-term exams. The lecture and lab material covered in the second part of the course will be examined in the final exams.**
- **Lecture: Mid-term (Feb 17) 20%**
- **Final (exam schedule) 30%**
- **Lab: Midterm 25%**
- **Final 21%**
- **Field Trips 4%**
- **There will be regular field trips and exercises. Details of the meeting times and places are to be determined and will be announced in lab and lecture.**

Note: Students not wanting their marks posted using ID# (last 5 digits) should notify me at the beginning of the term. It is the student's responsibility to meet the ADD/DROP dates from the UVic calendar. Students are responsible for checking their own records and registration status, available via WebView (www:uvic.ca/reco). Grades are assigned as follows: A+ 90-100; A 85-89; A- 80-84; B+ 77-79; B 73-76; B- 70-72; C+ 65-69; C 60-64; D 50-59; F 0-49. A supplementary exam is not permitted for those who get F in the course. Deferred exams will be offered only for medical issues. Students receiving less than 40% on the final lecture exam receive a failing grade for the course.
"UVic is committed to promoting, providing and protecting a supportive and safe learning and working environment for all its members".

LAB E-GUIDE: Available in the bookstore

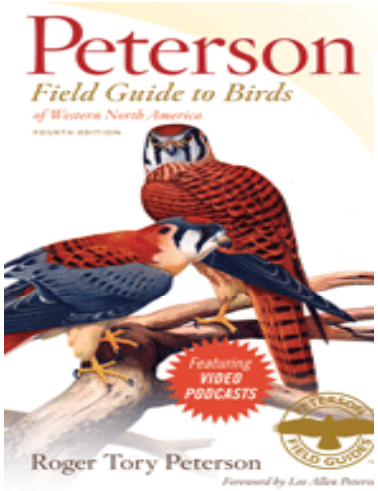
Cost = determined by administration – payment is to the bookstore

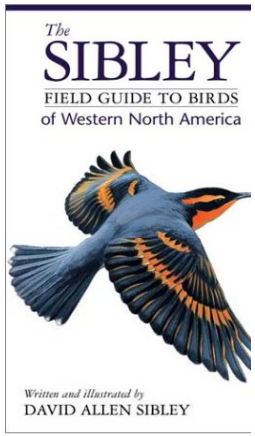
Each lab is composed of a series of modules. Extra lab information will be available each week to download (e.g., bring a memory stick) from the lab computers – no cost

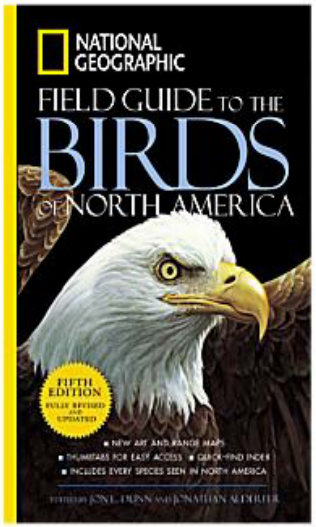
Mark Distribution: 50% of course mark!!!

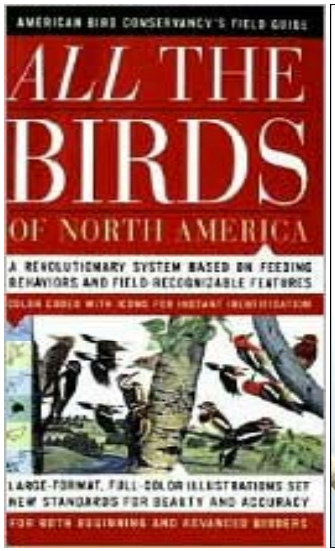
Field Trips (on the weekend) – TBD – announced each week. First field trip is on Jan23. Details to be announced next week.

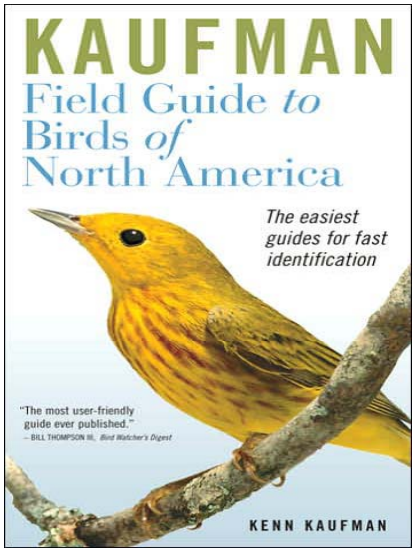
Lots of in-lab time to work on all of the modules and get help from your lab instructor and get any general question about Biology 329 answered.











BIOLOGY 329 -LAB SCHEDULE-2015

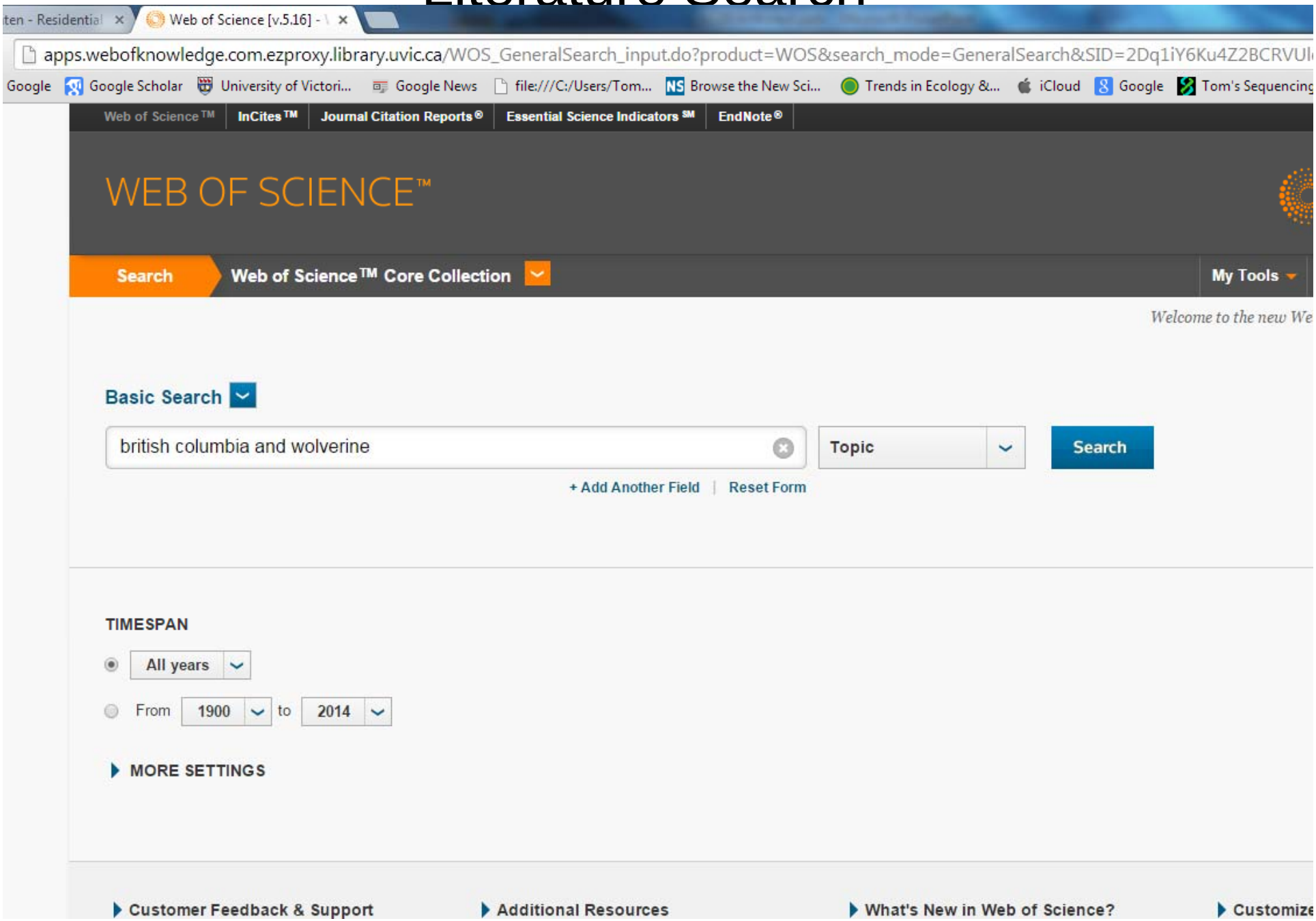
LAB#	WEEK OF	TOPIC
1	Jan. 12	Biodiversity of Birds 1 – Loons-Ducks
2	Jan. 19	Biodiversity of Birds 2 – Birds of Prey-Cranes
3	Jan. 26	Biodiversity of Birds 3 – Shorebirds-Alcids
4	Feb. 2	Biodiversity of Birds 4 – Pigeons-Woodpeckers
5	Feb. 9	Reading Break – No Labs
6	Feb. 16	Midterm Exam – Identification and Biodiversity
7	Feb. 23	Biodiversity of Birds 5 – Perching Birds Part 1
8	March 2	Biodiversity of Birds 6 – Perching Birds Part 2
9	March 9	Biodiversity of Small Mammals
10	March 16	Biodiversity of Large Mammals
Biodiversity final exam		
11	March 23	Final Exam – Identification
12	March 30	NO LABS

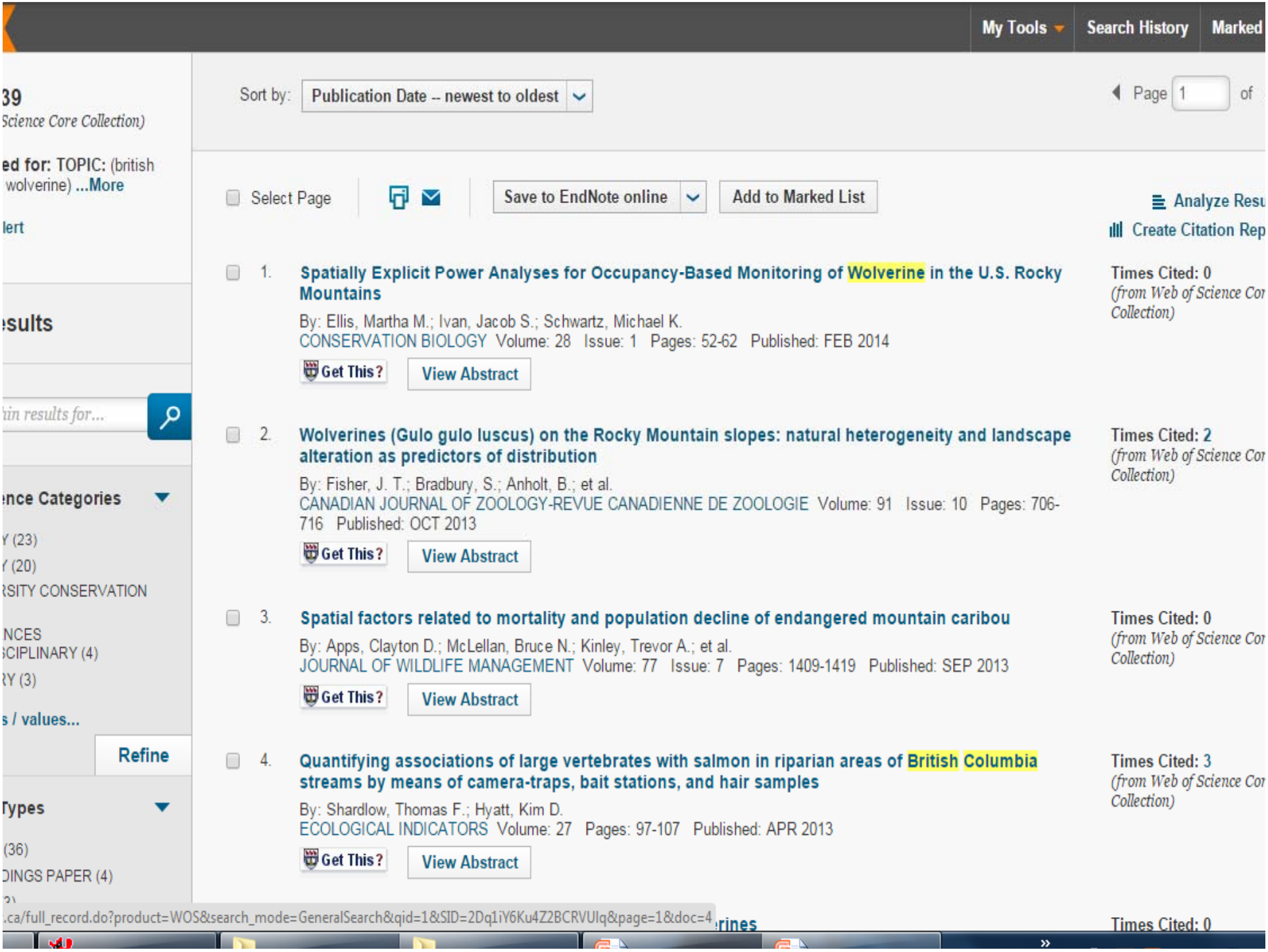
NOTE: Amphibians and Reptiles will be a module component in the first 4 labs.

Field Trip Participation:	MARKS
There will be a series of 5-8 scheduled field trips.	4%
You are expected to participate in 2 of these trips.	

Midterm: Biodiversity – written exam	5%
Midterm: Identification – open book	20%
Final: Biodiversity – written exam	6%
Final: Identification – open book	15%
TOTAL	50%

Literature Search

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By: Ellis, Martha M.; Ivan, Jacob S.; Schwartz, Michael K.
CONSERVATION BIOLOGY Volume: 28 Issue: 1 Pages: 52-62 Published: FEB 2014
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2. Wolverines (Gulo gulo luscus) on the Rocky Mountain slopes: natural heterogeneity and landscape alteration as predictors of distribution
By: Fisher, J. T.; Bradbury, S.; Anholt, B.; et al.
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3. Spatial factors related to mortality and population decline of endangered mountain caribou
By: Apps, Clayton D.; McLellan, Bruce N.; Kinley, Trevor A.; et al.
JOURNAL OF WILDLIFE MANAGEMENT Volume: 77 Issue: 7 Pages: 1409-1419 Published: SEP 2013
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4. Quantifying associations of large vertebrates with salmon in riparian areas of British Columbia streams by means of camera-traps, bait stations, and hair samples
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ECOLOGICAL INDICATORS Volume: 27 Pages: 97-107 Published: APR 2013
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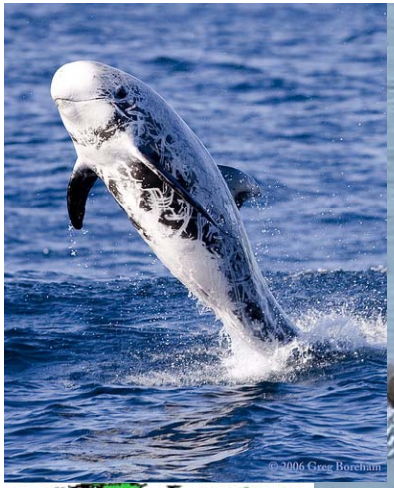
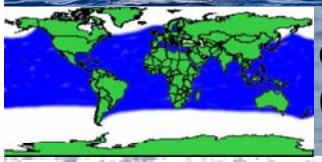
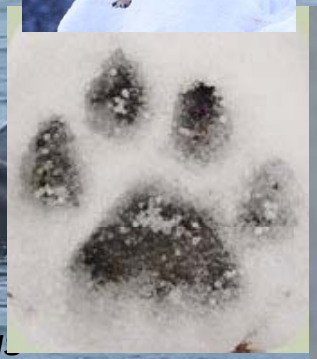




Grampus griseu
(Risso's Dolphin)



(Killer whale)

The course goals are to motivate interest in the diversity of tetrapods in BC.

By the end of this course, you should be able to:

1)Describe major characteristics of tetrapods and their evolution.

2)Understand the major factors influencing the distribution of BC tetrapods

3)Evaluate the impacts of human activities on BC tetrapod life histories.

4)Identify to species the tetrapods of BC (major component of lab).