

# COURSE OUTLINE

## Grading Systems

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**School of Arts & Science**

**ENVR 242-001 Vertebrate Diversity and Ecology**  
**Fall 2017**

## COURSE OUTLINE

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***This course covers the principles of systematics, identification and environmental relationships of selected BC vertebrates, with emphasis on animal taxa of ecological and economic value. Labs stress keying and taxonomy and include field-trips. Policy, legislation and management principles are discussed. Prerequisites: Biology 124***

ENVR 242	Mon		Wed	Thurs
Lab/Field/Seminar	10:30-1:20 in F224			
Lecture			2:30-3:20 in E344	1:30-2:20 in WT203
Office Hours			1:30-2:20 in F252B	2:30-3:20 in F252B

### 1. Instructor Information

Instructor: **Annette Dehalt, MSc**  
Office location: **F252B** Phone: 250-370-3388  
e-mail: [dehalt@camosun.ca](mailto:dehalt@camosun.ca)  
website: [sites.camosun.ca/annettedehalt](http://sites.camosun.ca/annettedehalt)

### 2. Intended Learning Outcomes

- Use logic, critical thinking and the scientific method in combination with biological terminology pertinent to vertebrates found in BC
- Use biological identification keys for selected groups of vertebrates of BC
- Sample terrestrial and aquatic habitats for vertebrates and understand basic methods of habitat restoration
- Describe biodiversity issues, including rare and endangered species, introduced species, overharvesting impacts and effects of habitat loss
- Discuss the principles of systematics, evolution and wildlife management as they apply to the important ecological or economic vertebrate species of BC
- Discuss the importance and impact of policy and legislation on wildlife management issues

### 3. Required Materials

- (a) Downloads or print-outs of lecture notes and lab exercises
- (b) Field note-book and basic office supplies including pen, white-out, ruler, stapler...
- (c) Optional: vertebrate field guides, binoculars

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**4. Course Content and Schedule**

The following tentative schedule is subject to change if deemed necessary by the instructor. **Tests are scheduled for the first lecture of the week, unless specified otherwise.**

Wk	Wk of	Lab/Field/Seminar (M)	Lecture Topics (T, Th)
1	Sept 4 <i>M=Labor Day</i>	-----	Introduction; Diversity, Phylogeny, Taxonomy
2	Sept 11	Lab 1: Field Methods	Anthrozoology – Interactions of Humans with other Animals
3	Sept 18	Lab 2: Fishes <b><u>Seminar Topic Due</u></b>	Fishes
4	Sept. 25	<i>FIELD TRIP (bus)</i> <i>Habitat Restoration</i>	<b><u>Quiz 1</u></b> Amphibians
5	Oct 2	Lab 3: Amphibians	Reptiles
6	Oct. 9 <i>M=Thanksg.</i>	-----	Birds
7	Oct. 16	Lab 4: Reptiles <b><u>Seminar Outline Due</u></b>	Birds cont.
8	Oct. 23	Lab 5: Birds	<b><u>Midterm</u></b> Mammals
9	Oct 30	<i>FIELD TRIP (bus)</i> <i>Goldstream salmon and salamanders</i>	Mammals cont.
10	Nov 6	<b><u>Seminar</u></b>	Mammals cont.
11	Nov 13 <i>M=holiday</i>	-----	<b><u>Quiz 2</u></b> Threats to Vertebrate Species; Ranking Systems
12	Nov 20	<i>FIELD TRIP (bus)</i> <i>Birding</i>	Conservation & Wildlife Management
13	Nov 27	Lab 6: Mammals	Threats to Individual Vertebrates; Animal Welfare Science
14	Dec 4	<b><u>Lab Exam</u></b>	Legislation Affecting BC Vertebrates

**Final Exam** during final exam period – scheduled by registrar – check CAMLINK

***Avoid making travel or work plans during the final exam period, as you are expected to give priority to your exam schedule!***

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#### 5. Basis of Student Assessment

Midterm	15%
2 Quizzes	10%
Seminar Presentation	10%
Lab/Field Assignments	10%
Lab/Field Exam	25%
Final Exam	30%

Midterms, quizzes and lab exams will be unit exams (i.e. *not* cumulative).

The final lecture exam will be cumulative, with proportionately greater emphasis on the last unit not covered by the previous midterm. Midterm and final exams will be a mix of multiple choice and short answer/short essay questions. A lab exam is set up as a series of “stations” consisting of equipment, data and/or specimens, with accompanying questions testing both practical and theoretical knowledge.

The seminar presentation will focus on a current issue concerning one or more vertebrate species in BC. It will include a 10 minute oral presentation in a circle format, as well as a question and answer period (see attachment for details).

#### 6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 90 - 100%	B = 73 - 76%	D = 50 - 59%
A = 85 - 89%	B- = 70 - 72%	F = 0 - 49%
A- = 80 - 84%	C+ = 65 - 69%	
B+ = 77 - 79%	C = 60 - 64%	

*Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for further information.*

#### 7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

### STUDENT CONDUCT POLICY

There is an Academic Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

[www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html)

### LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at <http://www.camosun.bc.ca>

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#### **ADDITIONAL INFORMATION**

**Academic Conduct:** Be sure that you are familiar not only with the Student Conduct Code (s.a.), but also with the General Department Policies, which are stated in the lab manual. **Cheating or plagiarism will not be tolerated in any form, and will result in “0”.**

**Attendance:** You are expected to attend all classes (lectures, labs and related activities), and be on time. It is your responsibility to acquire *all* information given during a missed class, incl. notes, hand-outs, assignments, laboratory data, changed exam dates etc.

**Exams:** Exams have to be written when scheduled. There are no make-up exams during the term. **A missed exam results in “0” except in case of documented emergency or illness** (doctor’s note required stating that student is too sick to attend class during a specified time period). Valid documentation of illness/emergency needs be received **within 1 week** of the illness/emergency. With a valid excuse, the weighting of the missed exam will be added to the final exam, along with additional questions on course material of that unit. **Please bring a pen and soft pencil to all exams. No programmable devices are allowed in exams.**

**Labs:** It is necessary to read each exercise before coming to lab, correlate the material with lecture notes, and research any unknown terminology or emerging questions beforehand, in order to make best use of lab time. Instructions regarding field-trips will be provided in class.

**Assignments:** Lab assignments can only be handed in for labs actually attended (except in cases of documented illness/emergency). You are encouraged to discuss assignments with your lab partner(s), however, **each assignment has to be your individual work – beware of plagiarism.** Unless otherwise stated, all assignments are due by the **beginning** of the lab/class of the due date. Marks will be based on all or on a portion of the entire assignment. The first late assignment/term is penalty-free – otherwise a **10%/day non-negotiable late penalty** (rounded to the nearest full mark) applies except in cases of documented illness/emergency. Late assignments will **not** be accepted after marked assignments have been returned to the rest of the class one week after the due date. A **professional format** is expected, i.e. a **neat, legible, clean** copy indicating authorship by full name. If the assignment is more than one page, separate pages must be **stapled**. “Rough” drafts risk rejection and a subsequent late penalty or reduced marks.

**Study Habits:** You will probably find this course not very difficult, but surprisingly labor-intensive. Good (and regular!!) study habits are required to do well in this course. Forming a study group can help this make more fun. Some **“study hints” are posted on the course web site.**

Lecture notes will be provided in point form and are posted on the web for you to print prior to class. You will need to write down additional notes of examples and explanations given during lecture. It is also recommended practice to transcribe these notes into a study-friendly format after each lecture, incorporating additional information from recommended readings and other sources. Review these notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Take advantage of office hours if you need extra clarification and help, or simply would like to discuss a topic of interest a little further.

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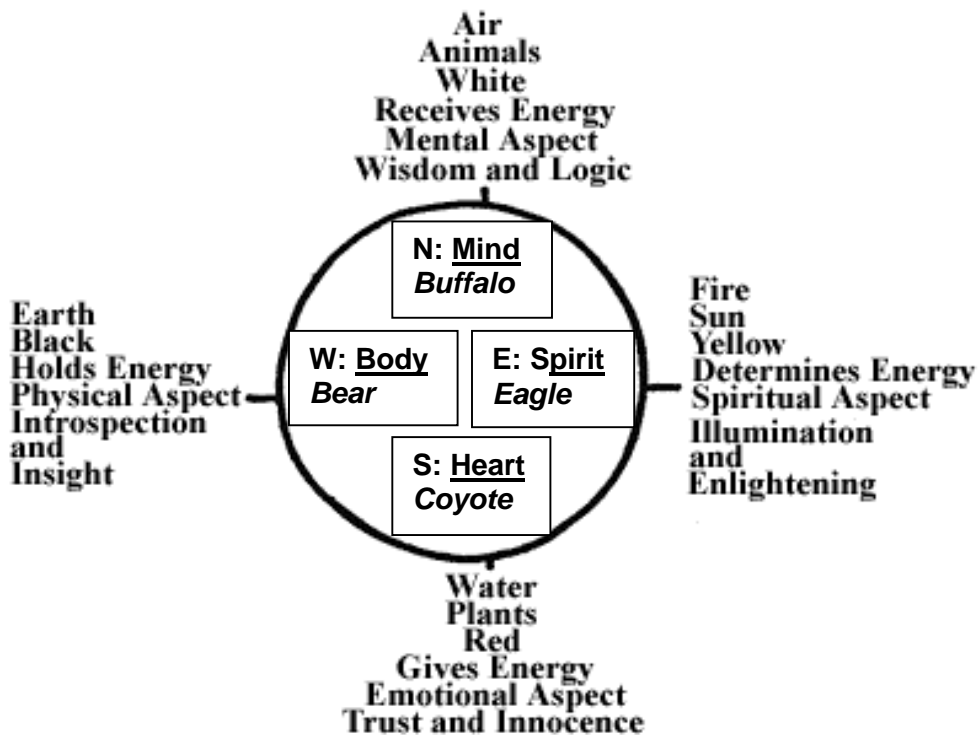
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### “Medicine Wheel” Seminar: Vertebrate Issues

This assignment requires a 10 minute oral presentation, done in pairs, on a current issue concerning a vertebrate species of your choice (preferably BC) - excluding *Homo sapiens*. The idea is to study, and empathize with, vertebrate animals of a species other than our own. This is an opportunity to gather and present information on the causes and potential solutions regarding a particular problem facing a group of vertebrate animals or a species (terrestrial or aquatic) that you care about.

Topics may include environmental or ethical issues, for example: endangerment of a vertebrate species through habitat destruction, pollution, or over-exploitation, welfare concerns regarding vertebrates in food production, product testing or entertainment, issues regarding poaching, trade in species (parts), hunting/trapping methods and regulations, or the effect of an introduced species on a native species, etc. There is a wide range of possible topics, but the basic premise is a bio-centric approach, i.e. deconstructing the issue from the point of view of the animal(s) in question, and focusing on the animal's best interest. Please check with your instructor if your topic choice and angle fits the scope of this assignment before you proceed with your research (see course outline for deadlines).

Format and content of this presentation is supposed to be holistic in nature and is loosely based on the concept of a generalized First Nations medicine wheel:



In your presentation, you are therefore expected to present not only the physical and mental aspects of the issue (see West and North), but also the emotional and value-based/ spiritual aspects (see South and East) to the same extent.

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Please present your talk in the following sequence:

Briefly introduce yourself and your topic, and then address the 4 basic aspects of your chosen issue by going around the medicine wheel.

1. W: "Physical" Aspect: Issue Definition

Introduce your chosen vertebrates, including a *brief* background on their biology and ecology as it pertains to the issue. Define and explain the concrete problem facing this species or group of vertebrates, keeping in mind that this may be the first time your audience has heard about this issue. Condense your background research into a precise yet concise, readily comprehensible summary. If relevant, mention other species affected by the issue.

2. S: "Emotional" Aspect: Personal Engagement

Why do you care about this species, this particular issue? What is the story behind your choice? What emotions and opinions were shared by your co-presenter (if applicable) or other discussion partners when researching this issue? Did other people share your position or not? Do you think/know whether your (group's) position on this issue is representative of the population at large?

3. E: "Spiritual" Aspect: Underlying Values – and Alternatives

What societal/cultural/spiritual values or belief systems do you perceive to be at the root of the problem? How did the status quo come to be accepted? What ethical principles or choices may need to be re-evaluated? Are there underlying values or attitudes that may have to be changed in your opinion to allow for support for any type of practical solution? What other societies/cultures/value systems can we learn from in this regard, incl. Traditional Ecological Knowledge and Wisdom (TEKW)? Discuss some of the values and attitudes you would like to foster.

4. N: "Mental" Aspect: Thoughtful Solutions

What should be done, in your opinion, to fix or ameliorate the problem facing your chosen vertebrate(s)? What can different levels of society contribute to the solution, e.g. government, NGO's, industry, academia, organized religion etc. and what actions can you and your class mates take to support your solutions? Give specific examples. You may cite published solutions that you support, or think outside the box to come up with your own answers to the problem.

A different path around the medicine wheel may be more suitable to your presentation – please discuss the best sequence or integration of aspects with the instructor.

Conclude your talk with a short statement referring to future hopes or plans and thank your audience. (Note: "that's all we got" or "I guess that's it..." is *not* a good concluding statement!)

You need to know the material well enough to speak freely as well as answer questions for approx. 5 minutes following your talk (*know more than you present!*). The presentation itself will take place in circle format around a replica of a medicine wheel, i.e. the presenters are seated along with the audience in a circle. If necessary, a room other than the lab will be booked for this purpose. Therefore, you will not have to stand in front of the class, and **you are not required to prepare overheads or power-points – this really is an oral presentation**, and it is meant to provide a different presentation and learning experience. This means that your speech should be as free from references to written notes as possible. A recipe card with point form notes for memory aid is permitted, while reading a prepared paper will result in a maximum 50% mark.

You are also required to bring a visual aid to be passed around, e.g. a good quality picture or replica or otherwise relevant object (1 minimum and 3 maximum visual aids per presentation). Aids should be user-friendly and add to your talk but not distract from it; written materials are usually not suitable. Please also have a list of references handy, in case you may be asked about the sources of presented information. Although not a requirement, you are free to integrate original elements of the visual, musical, healing or performing arts as well as aspects of your cultural or spiritual practices that you are able to share.

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It is important to practice the talk several times beforehand, in order to feel comfortable speaking freely, to allow for smooth transitions, and to keep within the time limit of 10 minutes in fairness to all other students. However, in alignment with common indigenous practice, speakers will be allowed – within reason – to complete their presentation.

As a member of the audience, you are expected to be respectful to the speaker by following the talk with focus and an open mind, so you may be able to contribute a question at the end of the talk. While a class mate is presenting, it is unacceptable to review your own notes, carry on a conversation or leave the circle early. Being a disrespectful listener may affect your overall mark for this project.

#### **Evaluation of Oral Presentation:**

CRITERIA	SCORE (0 – 10)
1. <b>Content:</b> bio-centric, not anthropocentric perspective maintained; all 4 sub-topics (directions) addressed adequately and with appropriate details in each category; evidence of broad background research and in-depth contemplation of the issue	
a. Physical	
b. Emotional	
c. Spiritual	
d. Mental	
2. <b>Outreach:</b> the issue and potential solutions were presented convincingly, with respect, empathy and engagement – prepared to draw and hold audience attention	
3. <b>Format:</b> appropriate opening and closing statements, smooth and clear transitions between sub-topics; the talk flowed well, trains of thoughts were followed through	
4. <b>Delivery:</b> free speech, referred to notes only very briefly or not at all, used good voice projection, clear pronunciation, suitable intonation	
5. <b>Timing:</b> fair time allocation for each sub-topic/direction, without rushing or needless pauses or fillers; time limit (10 +/- 1 min) observed (-2 marks/extra minute over or under)	
6. <b>Visual Aid(s):</b> well-chosen and informative, attention to ease of viewing and handling, no distracting details such as extensive writing, well-integrated into talk	
7. <b>Questions:</b> questions from the audience were answered knowledgeably and honestly, showing involvement with the subject beyond the information given in the talk	
<b>TOTAL SCORE</b>	...../100