CAMOSUN COLLEGE
School Of Arts & Science
Environmental Technology

ENVR 290 Independent Studies
Introduction to BC Vertebrate Biodiversity

COURSE OUTLINE

The Approved Course Description is available on the web @

1. Instructor Information

(a) Instructor: Dianne Humphrey and Russ Frith

(b) Office hours: see office door

(c) Location: F-248 B and F-248A

(d) Phone: 370-3432 and 370-3434
Alternative:

(e) E-mail: humphrey@camosun.bc.ca and frith@camosun.bc.ca

(f) Website: www.camosun.bc.ca

2. Intended Learning Outcomes

These outcomes are the outcomes from ENVR 215 which pertain to Vertebrates of BC
Upon completion of this course the student should be able to:

1. Use standard biological lab equipment; especially microscopes.

2. Use logic, critical thinking, and the scientific method in combination with biological terminology pertinent to Vertebrates.

3. Use biological identification keys for selected groups of Vertebrates.

Specific learning objectives for Vertebrates – the student will:

1. Be aware of vertebrate tissue types – location, features, functions
2. Be aware of vertebrate organs – locations, features, functions
3. Be able to recognize vertebrate cells, tissues and organs – in living and prepared materials
4. Know the general features of vertebrate in each class and some orders
5. Be able to recognize and describe the orders and some families of vertebrates found in B.C.
6. Be able to use knowledge of vertebrate anatomical features and associated terminology to key unknown vertebrate specimens
7. Be aware of the provincial classification systems for vertebrate habitat in B.C.
8. Be aware of collection and preservation techniques for vertebrates
9. Be able to identify a select group of B.C. vertebrates
10. Know the vertebrate groups or species of ecological and economic importance in B.C.

3. Required Materials

(a) **Texts**

Hickman, Roberts, and Larson. 2003. Animal Diversity. McGraw Hill. 3rd ed.
Pojar and McKinnon. 1994. Plants of Coastal British Columbia. Lone Pine Press

Laboratory Manual

Frith, R. and D. Humphrey. 2004. ENVR 215 Laboratory Manual. Camosun College. Victoria, B.C.
** Extra pages may be produced on an ongoing basis throughout the term.

(b) **Other**

Optional Study Aids:

Gregory and Campbell. 1996. The Reptiles of British Columbia. Royal B. C. Museum.
Corkran and Thoms. 1966. Amphibians of Oregon, Washington,and B.C. Lone Pine Press
Larrison. 1976. Mammals of the Northwest. Seattle Audubon Society.
Lamb and Edgell. 1986. Coastal Fishes of the Pacific Northwest. Harbour Pub.
Peterson and Peterson. 1990. Western Birds/ A Field Guide to Western Birds. Houghton Mifflin Co.
Van De Graff, Kent M. and John L. Crawley. 1996. A Photographic Atlas for the Biology Laboratory 3rd edition. Morton Publishing Company. Englewood, Calif.
Harris, J.G. and H.W. Harris. 1994. Plant Identification Terminology, An Illustrated Glossary. Spring Lake Pub. Spring Lake, Utah.

4. Course Content and Schedule

This course covers the identification and environmental relationships of important British Columbia vertebrate animals. Labs will stress taxonomy and keying. Vertebrate groups studied are fish, amphibians, reptiles, birds, and mammals

Prerequisites: Biology 224 and 228, ENVR 110

Weekly Schedule: 3 hours of lecture and 2 hours of lab. Each student should plan to spend at least 6 hours on this course each week , outside of formal class time. That time will be for completion of assignments and studying.

ENVR 290 Course Schedule

Week	Date	Lecture Topics	Lab Topics
1	Jan. 5-9	Introduction to Biodiversity Fish	**Biodiversity Exercise** at the Museum - self directed - **LAB 1**
2	Jan. 12-16	Fish	**LAB 2** - Fish
3	Jan. 19-23	Amphibians and Reptiles	**LAB 3** Amphibians, and Reptiles
4	Jan. 26-30	Birds **Quiz 1 – Jan 26th (10%)**	**LAB 4 –** Birds
5	Feb. 2-6	Birds	**LAB 5** – Bird Watching

6	Feb. 9-13	Birds/Mammals	Optional Field Trip - TBA
	Feb. 12-13	**Reading Break**	
7	Feb. 16-20	Mammals	**LAB 6** –Mammals 2
		'Vertebrate' Portion of the course - Completed by Feb. 23	
8	Feb. 26th		**Vertebrate Animal Lab/Lecture Final (10%, 20%) 3 hr**

5. Basis of Student Assessment (Weighting)

(a) Assignments 20%

(b) Quizzes 20%

(c) Exams - Final – lab and lecture components - 60% (20%, 40%)

(d) Other (e.g. Project, Attendance, Group Work)

6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 95 - 100%	B = 75 - 79%	D = 50 - 59%
A = 90 - 94%	B- = 70 - 74%	F = 0.0 - 49%
A- = 85 - 89%	C+ = 65 - 69%	I = See Calendar for Details
B+ = 80 - 85%	C = 60 - 64%	AUD = Audit

W = Official withdrawal has taken place.

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

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

ACADEMIC 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/2-8