CAMOSUN COLLEGE School Of Arts & Science Environmental Technology

ENVR 215

Winter 2004

COURSE OUTLINE

The Approved Course Description is available on the web @

1. Instructor Information

- (a) Instructor: Russ Frith / Dianne Humphrey
- (b) Office hours: See office doors
- (c) Location: F-248A / F-248B
- (d) Phone: 370-3434 / 370-3432 Alternative: A&S office 370-3298
- (e) E-mail: frith@camosun.bc.ca / humphrey@camosun.bc.ca
- (f) Website: www.camosun.bc.ca

2. Intended Learning Outcomes

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 and Vascular Plants.
- 3. Use biological identification keys for selected groups of Vertebrates and Vascular Plants.
- 4. Prepare herbarium specimens.
- 5. On sight, identify most native vascular plants to Division and Class and many to Order, Genus, or Species.

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.
Cannings R. and S. Cannings. 1996. British Columbia - A Natural History. Greystone Press.

Other text and reference materials may be suggested throughout the term. There is a good selection of Biology books in F-244, in the Lansdowne Camosun Library, in the Interurban Camosun Library, in the UVIC Library, and in various Government Buildings. Ask your instructor for details.

4. Course Content and Schedule

ENVR 215 Course Schedule

(This schedule is tentative and may change somewhat as the course progresses.)

Week	Date	Lecture Topics	Lab Topics			
1	Jan. 5-9	Introduction to Biodivers	ity Biodiversity Exercise at the Museum - self directed - LAB 1			
2	Jan. 12-16	Fish	LAB 2 - Fish			
3	Jan. 19-23	Amphibians and Reptile	s 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			
Week	Date	Lecture Topics	Lab Topics			
6	Feb. 9-13 Feb. 12-13	Birds/Mammals Reading Break	Optional Field Trip - TBA			
7	Feb. 16-20	Mammals	LAB 6 – Mammals 2			
'Vertebrate' Portion of the course - Completed by Feb. 23						
8	Feb. 23-	'Vascular Plant' Portion of the Course Begins in lecture				

	Feb 27 Feb. 26th	Introduction to Plant Cells	Vertebrate Animal Lab/Lecture Final (10%, 20%) 3 hr
9	Mar. 1-5	Plant Cells con't Plant Organs, Terminology B.C. Biogeoclimatic Zones Indicator Plants	Plant Cells Plant Tissues Plant Organs
10	Mar. 8-12	Biodiversity of Non-seed Plants in B.C. ** last day to withdraw – Marc	Plant Organs con't Begin Non-seed plants : h 8th
11	Mar. 15-19	Biodiversity of Gymnosperms Quiz 2 - Mar. 15th (10%)	Non-seed Plants Begin Gymnosperms
12	Mar. 22-26	Biodiversity of Gymnosperms con't Biodiversity of Angiosperms	Gymnosperms
13	Mar. 29 - Apr. 2	Angiosperms con't	Mount Plant Specimens Angiosperms
14	April 5-8 Good I	Review of ecological and economic importance of vascular plants in B.C. Friday is April 9 th and Easter M	Angiosperms/Keying Terminology revisited Taxomony onday is April 12th
15	April 13-17 April 19-21	Final Exam Schedule - a lab/lecture final will be scheduled so do not plan to leave town before the 21st. (10%, 20%)	

5. Basis of Student Assessment (Weighting) Vertebrate animals will be covered in the first half of the course and evaluated in that time period. Vascular plants will be covered in the second half of the course and evaluated at the end of the course. Each half of the course will contribute 50% of your course grade.

A. Vertebrate Animals	50%
Quiz 1 – Jan. 26th	109
Lab Activities	109
Lab/Lecture Final – Feb. 26th	30% - (lab ′

B. Vascular Plants Quiz 2 - March 15th Lab Activities

% total % % 10%, lec 20%)

> 50% total 10% 10%

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

Additional Information

- 1. You are responsible for all material presented during the laboratory and lecture periods.
- 2. It is expected that assignments will be turned in on time. Late assignments may be submitted up to 5 days past the due-date as long as the instructor has not marked and returned the assignments to the rest of the class. There will be a penalty assessed of 15% of their graded value per school day that they are late. All work submitted must be typed or word-processed.
- 3. Be sure that you are familiar with the General Department Policies which are stated in the course information package. Each student is required to sign a Laboratory Safety Contract and give it to the instructor prior to commencing laboratory work in the course.
- 4. If you need help with study skills, note taking, etc. visit the Learning Skills Center in Fisher 128.
- 5. The last day to withdraw from Winter 03 Semester courses without academic penalty is March 8th.

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