CAMOSUN COLLEGE

Environmental Technology 215

BC BIODIVERSITY 2
2003

Instructor(s)	Russ Frith and Dianne Humphrey
Office(s)	F-248 (A for Russ and B for Dianne)
Office Phone	370-3434 (Russ) and 370-3432 (Dianne)
Office Hours	Posted on Office Door
Faculty Lab Phone	370-3379
Lab Technologists	Linda Grimm Dave Thomas Kenna Miskelly
Emergency Phone	370-3298 (Arts and Science Office)
Lectures - F-342	Monday 11:30 – 12:50
- F-268	Wednesday 14:30 – 15:50
Labs - F-244	Thursday 8:30-11:20 Thursday 13:30-16:20

This course covers the identification and environmental relationships of important British Columbia vertebrate animals and vascular plants. Labs will stress taxonomy and keying. Vertebrate groups studied are fish, amphibians, reptiles, birds, and mammals. A plant collection which was begun in ENVR 204 will be assembled during this course.

Prerequisites:	Biology 224 and 228, ENVR 110
Weekly Schedule	3 hours of lecture and 3 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.

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. 2002. ENVR 215 Laboratory Manual. Camosun College. Victoria, B.C.

** Extra pages may be produced on an ongoing basis throughout the term.

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.

Evaluation

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% total
	Quiz 1 – Jan. 27th	10%
	Lab Activities	10%
	Lab/Lecture Final – Feb. 28th	30% - (lab 10%, lec 20%)
B. Vascular Plants		50% total
	Quiz 2 - March 17th	10%
	Lab Activities	10%
	Lab/Lecture Final - Scheduled in Final Exam Period	30% - (lab 10%,lec 20%)

Lab attendance is compulsory in this course and a personal lab book should be kept as a record of activities. You should attend the lab period in which you are scheduled unless you make special arrangements otherwise. DO NOT EXPECT

TO APPEAR UNANNOUNCED. Make-up labs are not available, although students who call to say they are ill, will be accommodated as much as possible.

Exams and quizes must be written on the dates they are scheduled. In the case of illness, you must call the instructor to let him/her know and you may be required to bring a doctor's verification note. Do not plan to leave town before the final exam period is finished. Exam dates are not established until late January.

Course Mark

The School of Arts and Science recently had adopted a standard grade scale to be used in all courses by the Division. This grade scale follows:

A+	=	95-100%
A	=	90-94%
A-	=	85-89%
B+	=	80-84%
B	=	75-79%
B-	=	70-74%
C+	=	65-69%
C	=	60-64%
D	=	50-59%
F	=	0-49%

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 10th.

ENVR 215 Course Schedule

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

Week	Date	Lecture Topics	Lab Topics
1	Jan. 6-10	Introduction to Biodiversity Fish	**Biodiversity Exercise** at the Museum - self directed - **LAB 1**
2	Jan. 13-17	Fish	**LAB 2** - Fish
3	Jan. 20-24	Amphibians and Reptiles	**LAB 3** Amphibians, and Reptiles
4	Jan. 27-31	Birds **Quiz 1 – Jan 27th (10%)**	**LAB 4 –** Birds
5	Feb. 3-7	Birds	**LAB 5** – Bird Watching
6	Feb. 10-14 **Feb. 13-14**	Birds/Mammals **Reading Break**	Optional Field Trip - TBA
7	Feb. 17-21	Mammals	**LAB 6** –Mammals 2
		'Vertebrate' Portion of the course - Completed by Feb. 24	
8	Feb. 24- Feb 28 **Feb. 27th**	**'Vascular Plant' Portion of the Course Begins in lecture** Introduction to Plant Cells	**Vertebrate Animal Lab/Lecture Final (10%, 20%) 3 hr**
9	Mar. 3-7	Plant Cells con't Plant Organs, Terminology B.C. Biogeoclimatic Zones Indicator Plants	Plant Cells, Sectioning, Terminology Keying Principles - **LAB 7**
10	Mar. 10-14	Biodiversity of Non-seed Plants in B.C. **** last day to withdraw – March 10th**	Non-seed Plants - Club mosses, Horse-tails, and Ferns - **LAB 8**
11	Mar. 17-21	Biodiversity of Gymnosperms **Quiz 2 - Mar. 17th (10%)**	Gymnosperms - **LAB 9**

Week	Date	Lecture Topics	Lab Topics
12	Mar. 24-28	Biodiversity of Gymnosperms con't Biodiversity of Angiosperms	Continue **LAB 9** Begin **LAB 10**- Angiosperms
13	Mar. 31 - Apr. 4	Angiosperms con't	Mount Plant Specimens **LAB 10** - Angiosperms
14	April 7-11	Review of ecological and economic importance of vascular plants in B.C.	Angiosperms/Keying Terminology revisited Taxomony **LAB 10/LAB 11**
15	April 14-17 April 22-25	Final Exam Schedule - a **lab/lecture final will be scheduled** so do not plan to leave town before the 25th. **(10%, 20%)**	

Good Friday is April 18th and Easter Monday is April 21th