

## CAMOSUN COLLEGE

Environmental Technology 211

### BC BIODIVERSITY 1

2002

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Emergency Phone: (A & S office)	270-3298	
Lab Technologist:	Linda Grimm	
Lectures:	Monday 10:30 – 11:50, F 200 Wednesday 14:30 - 15:50, F 302	
Lab:	Thurs. 14:30-17:20/Fri. 8:30-11:20	F-244

This course covers the identification and environmental relationships of selected British Columbia algae, fungi, non-vascular plants and invertebrate animals. Labs will stress keying and taxonomy. Emphasis will be placed on organisms of economic and ecological significance.

**Prerequisites:** BIOL 224 and 228, and ENVR 112

**Weekly Schedule:** 3 hours of lecture and 3 hours of lab. Each student should plan on a minimum of 6 hours outside of scheduled class time for the completion of assignments and for general studying.

#### LABORATORY MANUAL

Humphrey, D. and R. Frith. 2002. **ENVR 211 (BC Biodiversity 1) Laboratory Manual.** Camosun College, Victoria, B.C.

#### TEXTS

Hickman, C.P., L.S. Roberts, A Larson. 2002. **Animal Diversity 3<sup>rd</sup> ed.** McGraw Hill

**(optional purchase)**

Kozloff, E. N. 1983. [4th printing 1996 with corrections made in 1993] **Seashore Life of the Northern Pacific Coast.** University of Washington Press. Seattle and London.

Pojar, J. and A. MacKinnon, eds. 1994. **Plants of Coastal British Columbia.** Lone Pine Publishing. Vancouver, BC.

**ADDITIONAL STUDY AIDS**

Also available, but **OPTIONAL** are:

Borror, D.J. 1960. **Dictionary of Word Roots and Combining Forms.** Mayfield Publishing Company. Mountain View, California.

Harding, L.E. and E. McCullum, eds. 1994. **Biodiversity in British Columbia: Our Changing Environment.** Environment Canada; Canadian Wildlife Service.

Van De Graaff, Kent M. and John L. Crawley. 1996. **A Photographic Atlas for the Biology Laboratory, 3rd edition.** Morton Publishing Company. Englewood, Colorado.

Other text and reference materials may be suggested from time to time. There is a good selection of biology books in the library -- call numbers QH1 to QH631.

**EVALUATION****A. LABORATORY -- 40% of the course mark**

Components:

- a) **Lab Exams -- 20% [2 x 10%]**  
Date: **Inverts: Oct. 18**  
**Botany: Final Exam Week, TBA**
- b) **In-class assignments/evaluations AND/OR**  
**out-of-class assignments -- 20% [2 x 10%]**

Make-up labs are not offered. If you are unable to attend your regularly scheduled lab due to illness or other extenuating circumstance, contact the instructors who will try to schedule you into another section's lab during that same week. Lab attendance is compulsory. You will lose 1.5% of your lab mark for each lab period missed. **[N.B. Permission to attend a lab other than the one you are scheduled to attend must be obtained in advance from the instructor.]**

The lab exams must be written as scheduled. If you are ill the instructor must be notified **prior to the time the exam is to be written.** In order to write a make-up exam a note from your physician will be required and will be verified by the Department.

**B. LECTURE -- 60% of the course mark**

Components:

- a) **2 Midterms -- 20% [2 x 10%]**  
**Inverts: Sept. 25 ; Botany: Nov. 18**
- b) **2 Final Exams -- 40% [2 x 20%]**  
Date: **Inverts: Oct. 16**  
**Botany: To be scheduled during final exam period, Dec. 9-17.**

The midterms and finals must be written at the scheduled times. Again, in case of illness or other extenuating circumstance, the instructors must be notified **prior to the time the exam is to be written**. In order to write a make-up midterm or final a note from your physician will be required and will be verified by the Department. [N.B. The botany lab and lecture final may not be written in advance of the scheduled time. As stated above, the last day of finals is December 17. **DO NOT PLAN TO LEAVE FOR CHRISTMAS HOLIDAYS PRIOR TO THE END OF THE FINAL EXAM PERIOD!!**]

### C. COURSE MARK

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

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%	
B+ = 80 - 85%	C = 60 - 64%	

### ADDITIONAL INFORMATION

You are responsible for all material presented during the laboratory and lecture periods. If you miss a class period you should arrange to borrow notes from another student in the class.

It is expected that assignments will be turned in on time. Late assignments may be submitted up to 5 days past the due date [but not after an assignment has been returned to 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.

Be sure that you are familiar with the **General Department Policies** which are stated in the lab manual. Each student is required to sign a **Laboratory Safety Contract** and give it to the instructor prior to commencing laboratory work in the course.

If you need help with study skills, note-taking, etc. visit the **LEARNING SKILLS CENTRE** in Fisher 128.

The last day to withdraw from Fall Semester courses without academic penalty is **November 5, 2002**.

## COURSE SCHEDULE

The schedule which follows is an attempt to outline the weekly activities of the class. It is subject to change or modification as the need arises.

WEEK	DATE	LECTURE TOPICS	LAB TOPICS
1	<b>Sept. 2<sup>rd</sup></b> Sept.3-6	<b>Labour Day Holiday</b> Course Introduction; Porifera	Taxonomic Review
2	Sept. 9-13	Cnidaria; Acoelomates and Pseudocoelomates; Annelids; Molluscs	Sponges and Jellyfish
3	Sept. 16-20	Molluscs; Arthropods - Crustaceans	Molluscs and Annelids
4	Sept. 23-27	Bryozoans; Brachiopods; Phoronids; Review <b>Midterm Sept. 25</b>	Arthropods – plankton, crabs, shrimp, lobsters
5	Sept. 30 - Oct. 4	Arthropods – Spiders and Insects	Arthropods – Spiders and Insects including stream insects
6	Oct. 7-11	Echinoderms	Echinoderms
7	<b>Oct. 14</b> Oct. 15-18	<b>Thanksgiving Holiday</b> Echinoderms; Review; <b>Invertebrate Final Lecture</b> <b>Exam Oct. 16<sup>th</sup></b>	<b>Invertebrate Lab Final</b> <b>October 18/19th</b>
8	Oct. 21-25	Begin Non-Vascular Plants; Algae Guest Speaker	<b>Field Trip</b> Marine Ecology Station
9	Oct. 28 – Nov. 1	Algae	Marine Algae
10	Nov. 4-8	Algae	<b>Optional Field Trip –</b> <b>Nov. 6 20:00-22:00</b> Fresh Water Algae
11	<b>Nov. 11</b> Nov. 12-15	<b>Remembrance Day Holiday</b> Fungi; Kingdom Protista	<b>Optional Field Trip –</b> <b>Nov. 11 11:00-15:00</b> Soil Isolation Diversity of the Fungi
12	<b>Nov. 18<sup>th</sup></b> Nov. 18-22	<b>Midterm Nov 18th</b> Kingdom Fungi: Zygomycota and Ascomycota	Soil Isolation con't Diversity of the Fungi (continued)
13	Nov. 25-29	Kingdom Fungi: Deuteromycota and Basidiomycota	Diversity of the Fungi Fungal Symbionts
14	Dec. 2-6	Fungal Symbionts and Non-Vascular Plants	Non-Vascular Plants
15-16	Dec. 9-17	<b>Botany Lab and Lecture Final</b>	scheduled during this period