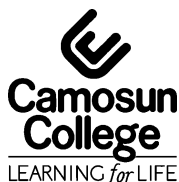


**COURSE DESCRIPTION**  
Grading Systems

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**CAMOSUN COLLEGE**  
*School Of Arts & Science*  
*Environmental Technology*

**ENVR 211 COURSE OUTLINE**  
Fall 2004

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The Approved Course Description is available on the web @

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**1. Instructor Information**

- (a) Instructor: Russ Frith / Dianne Humphrey
- (b) Office hours: see posted on the office doors
- (c) Location: F- 248A / F- 248B
- (d) Phone: 370 – 3434 / 370 - 3432  
Alternative: Arts and Science Office 370 - 3298
- (e) E-mail: [frith@camosun.bc.ca](mailto:frith@camosun.bc.ca) / [humphrey@camosun.bc.ca](mailto:humphrey@camosun.bc.ca)
- (f) Website: [www.camosun.bc.ca](http://www.camosun.bc.ca)

**2. Intended Learning Outcomes**

Upon completion of this course you 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 Invertebrates, Algae, Fungi, and Non-Vascular Plants found in B.C.
3. Use biological identification keys for selected groups of B.C. Invertebrates, Algae, Fungi, and Non-Vascular Plants and project population estimates of the same.
4. Sample fresh water and marine habitats, soil, and terrestrial debris in order to determine types of living organisms present.
5. Preserve and/or culture various selected Invertebrates, Algae, Fungi (sterile technique), and Non-Vascular Plants.

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### 3. Required Materials

(a) Texts

Hickman, C.P., L.S. Roberts, A Larson. 2003. **Animal Diversity 3<sup>rd</sup> ed.**  
McGraw Hill

**(optional texts)**

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

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

(b) Other

**LABORATORY MANUAL**

Humphrey, D. and R. Frith. 2004. **ENVR 211 - BC Biodiversity 1 Laboratory  
Manual.** Camosun College, Victoria, B.C.

Other suggested but **OPTIONAL** study aids 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.

Kozloff, E.N. and L.H. Price. 1996. **Marine Invertebrates of the Pacific  
Northwest.** University of Washington Press. Seattle, Washington.

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.

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#### 4. Course Content and 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. 6</b> Sept.7-10	<b>Labour Day Holiday</b> Course Introduction; Porifera	Taxonomic Review
2	Sept. 13-17	Cnidaria; Acoelomates and Pseudocoelomates; Annelids; Molluscs	Sponges and Jellyfish
3	Sept. 20-24	Molluscs; Arthropods - Crustaceans	Molluscs and Annelids
4	Sept. 27- Oct. 1	Bryozoans; Brachiopods; Phoronids; Review <b>Midterm Sept. 29</b>	Arthropods – plankton, crabs, shrimp, lobsters
5	Oct. 4-8	Arthropods – Spiders and Insects	Arthropods – Spiders and Insects including stream insects
6	<b>Oct. 11</b> Oct. 12-15	<b>Thanksgiving Holiday</b> Echinoderms	Echinoderms
7	Oct. 18-22	Echinoderms; Review; <b>Invertebrate Final Lecture Exam Oct. 20<sup>th</sup></b>	<b>Invertebrate Lab Final October 22<sup>nd</sup></b>
8	Oct. 25-29	Begin Non-Vascular Plants; Algae	<b>Field Trip</b> Marine Ecology Station Oct. 29
9	Nov. 1-5	Algae	Marine Algae
10	Nov. 8-12 <b>Nov. 11</b>	Algae <b>Remembrance Day Holiday</b> <b>Optional Fungi Field Trip</b>	Fresh Water Algae <b>Optional Low Tide Field Trip - Evening TBA</b>
11	Nov. 15-19	Fungi; Kingdom Protista <b>Midterm Nov 17th</b>	Soil Isolation Diversity of the Fungi
12	Nov. 22-26	Kingdom Fungi: Zygomycota and Ascomycota	Soil Isolation con't Diversity of the Fungi (continued)
13	Nov. 29 – Dec. 3	Kingdom Fungi: Deuteromycota and Basidiomycota	Diversity of the Fungi Fungal Symbionts
14	Dec. 6-10	Fungal Symbionts and Non-Vascular Plants	Non-Vascular Plants
15-16	Dec. 13-21	<b>Botany Lab and Lecture Final</b>	scheduled during this period

Lectures: Monday 10:30-11:50 and Wednesday 1:30 – 2:50

Labs: either Friday 9:30 – 11:20 or Friday 1:30 – 3:20

## COURSE DESCRIPTION

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#### 5. Basis of Student Assessment (Weighting)

*(Should be directly linked to learning outcomes.)*

- (a) Assignments
  - Inverts 10%
  - Botany 10%
  
- (b) Quizzes
  - Invert Midterm – Sept 29<sup>th</sup> 10%
  - Botany Midterm – Nov 17<sup>th</sup> 10%
  
- (c) Exams (Lab and Lecture component)
  - Invert Final – October 20th Lec 20%
  - October 22nd Lab 10%
  - Botany Final – Scheduled Lec 20%
  - Lab 10%
  
- (d) Other (e.g. Project, Attendance, Group Work)
  - NA

#### 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 - 84%	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](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-8)