



CAMOSUN COLLEGE
School of Arts & Science
Department

ENVR 244: Aquatic Environments
Fall, 2009

COURSE OUTLINE

The Approved Course Description is available on the web @ _____

⚡ Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for your records.

1. Instructor Information

- (a) Instructor: Steve Gormican
- (b) Office hours: Tues 13:30 -14:30 & Thurs 13:30- 14:30
- (c) Location: F314A
- (d) Phone: 370-3423
- (e) E-mail: gormicans@camosun.bc.ca

2. Intended Learning Outcomes

At the completion of this course, students will possess the expertise and proficiency to 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 to evaluate and assess the current status of BC invertebrates.
- 3. Use biological identification keys for selected groups of invertebrates of B.C.
- 4. Sample fresh water and marine habitats, soil and terrestrial debris in order to determine the types of living organisms present.
- 5. Preserve and/or culture various selected invertebrates.
- 6. Sample terrestrial and aquatic habitats for invertebrates and understand basic methods of habitat restoration.
- 7. Describe biodiversity issues including rare and endangered species, introduced species, overharvesting impacts and affects of habitat loss.
- 8. Discuss the principles of systematics, evolution and wildlife management as they apply to the important ecological or economic invertebrate species of B.C.
- 9. Discuss the importance and impact of policy and legislation on wildlife management issues.

3. Required Materials

- (a) none
- b) Lectures and notes available on course website.

4. Course Content and Schedule

<u>Week #</u>	<u>Date</u>	<u>Lecture</u>	<u>Laboratory & Lecture</u>
1	Sept. 08/10	Introduction Porifera & Cnidaria	Porifera & Cnidaria (Sponges, jellies)
2	Sept. 15/17	Mollusca & Lophorates (I)	Intertidal Field trip Cattle Point
3	Sept. 22/24	Mollusca & Lophorates (II)	Mollusca (Bivalves, chitons, squid) & Lophorates (lamp shells, bryozoans plus)
4	Sept. 29/ Oct. 01	Arthrodpoda Marine	Marine Arthropods (crabs, barnacles plus)
5	Oct. 06/08	Midterm exam	Arthropods -Lecture
6	Oct. 13/15	Arthrodpoda Terrestrial	Terrestrial Arthropods (Insects, mites & ticks)
7	Oct. 20/22	Echinodermata	Echinoderms (Sea stars, sea cucumbers, sea urchins & sand dollars)
8	Oct. 27/29	Echinodermata cont.	Lab exam
9	Nov. 03/05	Review	Invert Lecture exam
10	Nov. 10/12	Legislation	Sidney Marine Ecology centre field trip
11	Nov. 17/19	Slugs	Slugs
12	Nov. 24/26	Shellfish culture	Legislation project presentations
13	Dec. 01/03	Pollution indicators	Indicators & Bioassays
14	Dec.08/10	Biological Control	TBA

5. Basis of Student Assessment (Weighting)

(a) Assignments

Weekly written assignments: 15%

(b) Exams

Mid-term exam: 10%
Laboratory exam: 15%
Final exam: 30%

(c) Other:

Review Papers and oral presentations: 30%

6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 90 - 100%	B = 73 - 76%	D = 50 - 59%
A = 85 - 89%	B- = 70 - 72%	F = 0.0 - 49%
A- = 80 - 84%	C+ = 65 - 69%	
B+ = 77 - 79%	C = 60 - 64%	

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

EARNING 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/2-5.html