



**CAMOSUN COLLEGE**  
*School of Arts & Science*  
*Department*

**ENVR 244: Invertebrate Diversity/Ecology**  
**Fall, 2011**

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## **COURSE OUTLINE**

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The Approved Course Description is available on the web @ \_\_\_\_\_

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

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### **1. Instructor Information**

- (a) Instructor: Steve Gormican
- (b) Office hours: Mon 13:30 -14:30 & Thurs 13:30- 14:30
- (c) Location: F246
- (d) Phone: 370-3423
- (e) E-mail: [gormicans@camosun.bc.ca](mailto: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>Lecture &amp; Laboratory</u>
1	Sep 6/8	Introduction	Field trip Cattle Point
2	Sep 13/15	Legislation	SARA/COSEWIC
3	Sep 20/22	Invasives	Invasives
4	Sep 27/29	Porifera & Cnidaria (Sponges, jellies)	Mollusca & Lophorates (I)
5	Oct 4/6	Mollusca & Lophorates (II)	Legislation project presentations
6	Oct 11/13	Gastropod Guest Lecture	Gastropod Lab or Field trip
7	Oct 18/20	Shellfish Culture and Harvest	Porifera & Cnidaria <b><u>Laboratory #2</u></b>
8	Oct 25/27	Marine Arthropods (crabs, barnacles plus)	Mollusca & Lophorates <b><u>Laboratory #3</u></b>
9	Nov 1/3	Invert Midterm Lecture exam (covers up to and including Molluscs)	Marine Arthropods continued
10	Nov 8/10	Terrestrial Arthropods (Insects, mites & ticks)	RBCM field trip
11	Nov 15/17	Terrestrial Arthropods (Insects, mites & ticks)	Aquatic Arthropods <b><u>Laboratory #4</u></b>
12	Nov 22/24	Echinodermata	Terrestrial Arthropods <b><u>Laboratory #5</u></b>
13	Nov 29/Dec 1	Echinodermata Lecture cont.	Echinoderms (Sea stars, sea cucumbers, sea urchins & sand dollars) <b><u>Laboratory#6</u></b>
14	Dec 6/8	Review	Invert Lab exam

## 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](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html)