



CAMOSUN COLLEGE
School of Arts & Science
Department

ENVR 244: Invertebrate Diversity/Ecology
Winter 2016

COURSE OUTLINE

The Approved Course Description is available on the web @ ENVR 244 D2L

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

1. Instructor Information

- (a) Instructor: Michael Kory
- (b) Office hours: Wednesday 2:30 - 4:30 or by request/appointment.
- (c) Location: F344D
- (d) Phone: Campus office 250-370-3506; cell (250) 516-2415
- (e) E-mail: KoryM@camosun.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. Describe biodiversity issues including rare and endangered species, introduced species, overharvesting impacts and affects of habitat loss.
- 7. Discuss the principles of systematics, evolution and wildlife management as they apply to the important ecological or economic invertebrate species of B.C.
- 8. Discuss the importance and impact of policy and legislation on wildlife management issues.

3. Required Materials

- (a) Text book: none
- b) Lectures and notes available on course website. Selected readings placed on reserve.

4. Course Content and Draft Schedule

<u>Week #</u>	<u>Date</u>	<u>Lecture</u> Monday: 10:30 – 11:30	<u>Laboratory</u> Wednesday: 09:30 – 12:30
1	Jan. 11/13	Course Introduction; SARA/COSEWIC overview	Legislation Microscopes, taxonomic overview
2	Jan. 18/20	Porifera (Sponges)	Guest Lecturer Syd Cannings COSEWIC
3	Jan. 25/27	Cnidaria (Hydrozoans, jellies, anemonies, corals;	<u>Laboratory #1</u> Porifera (Sponges)
4	Feb. 1/3	Platyhelminthes (Flatworms, Tapeworms, fukes)	<u>Laboratory #2</u> Cnidaria (Hydrozoans, jellies, anemonies, corals) (Ctenophores: comb jellies)
5	Feb. 8/10	Family Day (no class)	<u>Laboratory #3</u> Shaw Ocean Discovery Center Field Trip
6	Feb. 15/17	Mollusca	<u>Laboratory #4</u> Platyhelminthes Nemertea, Rotifera, Nematoda
7	Feb. 22/24	Mollusca	<u>Laboratory #5</u> Mollusca
8	Feb. 29/ March 2	Midterm Exam (covers up to and including Molluscs)	<u>Laboratory #6</u> Mid Term Lab Quiz (covers up to and including Molluscs)
9	March 7/9	Annelids	<u>Laboratory #7</u> Annelids
10	March 14/16	Arthropods (crabs, lobsters, shrimp (insects, spiders, millipedes, centipedes etc.)	<u>Laboratory #8</u> Arthropods Insects
11	March. 21/23	Echinodermata Urochordates & minor phyla	<u>Laboratory #9</u> Echinoderms Urochordates & minor phyla
12	March 28/30	EASTER Monday (no class)	<u>Laboratory #10</u> Invertebrate ecology Field trip: dependant on tides
13	April 4/6	Legislation project presentations	Legislation project presentations
14	April 11/13	TBA- review	Invert Lab exam

5. Basis of Student Assessment (Weighting)

(a) Assignments:

COSEWIC assignment:	5%
Invertebrate species review (critter features X2):	15%
Legislation review briefing notes:	5%
Legislation presentations	10%

(b) Exams:

Mid-term exam:	15%
Lab quiz:	5%
Laboratory exam:	20%
Final exam:	25%

- (c) All exams, quizzes, assignments, labs must be completed and field trip(s) attended to successfully complete the course.

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