



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

**BIOL-228-001AB**  
**Ecology**  
**Fall 2019**

## **COURSE OUTLINE**

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The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

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### **1. Instructor Information**

(a) Instructor	Dr. David Blundon
(b) Office hours	Tuesday 10:30 – 12:30 PM, Thursday 10:30 – 12:30 PM
(c) Location	F246
(d) Phone	250-370-3984 <b>Alternative:</b> _____
(e) E-mail	blundond@camosun.bc.ca
(f) Website	_____

### **2. Intended Learning Outcomes**

Upon completion of this course the student will be able to:

1. Define Ecology and employ the scientific method by applying appropriate sampling techniques and data analyses to appraise suitable ecological questions.
2. Differentiate between autecology, population, community and ecosystem. Explain and criticize key concepts and models appropriate to these levels of inquiry.
3. Integrate and synthesize ecological concepts predicting organism abundance and distribution, recommending strategies for management and conservation and evaluating the long-term stability of ecological systems.

### **3. Required Materials**

(a) Texts

The New Ecology: Rethinking a Science for the Anthropocene  
by Oswald J Schmitz, 2016

#### 4. Course Content and Schedule

<b>F2019 COURSE SCHEDULE</b>			
<b>Weeks</b>	<b>Dates</b>	<b>Lecture Topics</b>	<b>Lab Topics</b>
1	Sept. 3-6	Introduction (What is Ecology)	<b>No Lab</b>
2	Sept. 9-13	Introduction (What is Ecology)	Basic Statistics Exercise Setup Lemna Lab
3	Sept. 16-20	Life History, Adaptation, and Environment	Lemna Count Niche Lab
4	Sept. 23-27	Life History, Adaptation and Environment	Lemna count Mark Recapture Lab <b>Stats Due</b>
5	Sept. 30 – Oct. 4	Life History, Adaptation and Environment	Lemna Count Setup Germination Lab <b>Niche Due</b>
6	Oct.7-11	Nutrient Cycling	Lemna Count Examine Germinants (open containers and water if needed) Haro Woods Field Study (BUS) <b>Mark Recapture Due</b>
7	Oct. 14 Oct. 15-18	College Closed Nutrient Cyclng	<b>No Lab</b> <b>Haro Woods Due</b>
8	Oct. 21-25	<b>Lecture Midterm (24<sup>th</sup> in F200)</b> Elk Beaver Lake	Lemna count Measure Germinants (measure root and shoot lengths)
9	Oct. 28 – Nov 1	Population Ecology	Last Lemna Count Germination Assignment Review
10	Nov. 4-8	Population Ecology	Rithet's Bog Field Trip (BUS) <b>Germination Due</b>
11	Nov 11 Nov. 12-15	College Closed Cordova Shore	<b>No Lab</b> <b>Lemna Due</b>
12	Nov 18-22	Biodiversity	Cordova Shore Field Trip (BUS)
13	Nov. 25-29	Biodiversity	<b>Lab Exam (F244 or Ewing)</b>
14	Dec. 2-6	Biodiversity	Review
15	Dec. 9-17	Final Lecture Exam – posted October 19 or 20 <b>Please don't book travel plans before this date is known</b>	

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

<b>CONTENT</b>	<b>PERCENT</b>
Textbook Quizzes	10%
Lecture Exam I	25%
Lecture Exam II	25%
Lab Assignments	30%
Lab Exam	10%

All lecture testing will consist of multiple choice and short and long answer questions. Quizzes' are based on textbook chapters. The lecture exams will be written on paper and the lab exam will be written on a computer and uploaded to D2L.

Lab attendance is compulsory – ten percent will be deducted from your final lab grade for each lab missed. Medical circumstances are exempt.

**Plagiarism is unacceptable – all involved will receive a zero.**

**In the lab portion of the course you will be working in pairs so you are encouraged to work collaboratively. You and your lab partner will each upload the same assignments (typed). The lab exam will be in F244.**

**Make arrangements so that there are no conflicts with the scheduled tests time of the midterm and final exams.**

## 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

## 7. Recommended Materials to Assist Students to Succeed Throughout the Course

## 8. College Supports, Services and Policies



### Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

### A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

**The following two grading systems are used at Camosun College:**

#### 1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

## 2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

## B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.