



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

**BIOL-228-001**  
**Ecology**  
**Fall 2018**

## **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 10:00 am – 12:00 pm, Friday 1:30 pm – 3:30 pm
(c) Location	F246
(d) Phone	250-370-3984 <b>Alternative:</b> _____
(e) E-mail	<a href="mailto:blundond@camosun.bc.ca">blundond@camosun.bc.ca</a>
(f) Website	D2L

### **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  
SimBio (ebook)
  
- (b) Other  
Lectures: PowerPoint available on D2L – see schedule  
Laboratory and Assignments: available on D2L – see schedule

#### 4. Course Content and Schedule

Weeks	Dates	Lecture Topics	Lab Topics
1	Sept. 4 – 7	Introduction (What is Ecology)	No Lab
2	Sept. 10 – 14	Life History, Adaptation and Environment	No Lab
3	Sept. 17 – 21	Life History, Adaptation and Environment	Basis Statistics Exercise Setup <i>Lemna</i> Lab
4	Sept. 24 – 28	Life History, Adaptation and Environment	<i>Lemna</i> Count Rithet's Bog Field Trip
5	Oct. 1 – 5	Nutrient Cycling	<i>Lemna</i> Count Niche Lab Stats Due
6	Oct. 8 Oct. 9 – 12	College closed Population Ecology	<b>No Lab</b> <i>Lemna</i> Count?
7	Oct. 15 – 19	Population Ecology	<i>Lemna</i> Count Haro Woods Field Study Niche Due
8	Oct. 22 – 26	Population Ecology	Lecture Midterm (Y211) <i>Lemna</i> Count Setup Germination Lab
9	Oct. 29 – Nov. 2	Competition	<i>Lemna</i> Count Examine Germinants Mark Recapture Lab Haro Woods Due
10	Nov. 5 – 9	Competition	Last <i>Lemna</i> Count Measure Germinants
11	Nov. 12 Nov. 13 – 16	College Closed Cordova Shore	<b>No Lab</b> Mark Recapture Due
12	Nov. 19 – 23	Community Dynamics	Cordova Shore Field Trip (North) Germination Due
13	Nov. 26 – 30	Ecosystem Ecology	Cordova Shore Field Trip (South) <i>Lemna</i> Due
14	Dec. 3 – 7	Ecosystem Ecology	Lab Exam (Ewing Computer Lab)
15	Dec. 10 – 18	Final Lecture exam - posted October 20 (please don't book travel plans before this date)	

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

Lecture Quizzes	10%
Lecture Midterm	25%
Lecture Final	25%
Lab Assignments	30%
Lab Exam	10%

Lecture exams will consist of multiple choice and short and long answer questions. Lecture quizzes are based on SimBio chapters.

Lab attendance is compulsory – 10% 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 upload the same assignment in D2L for a total of six lab assignments. The lab exam will be in a Ewing computer lab.

**Make arrangements so that there are no conflicts with all the scheduled tests.**

## 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.