



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

**ENVR-229-001A/B**  
**Quantitative Assessment**  
**Winter 2019**

**COURSE OUTLINE**

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The course description is online @ <http://camosun.ca/learn/calendar/current/web/envr.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 9:30 - 10:20 and 12:30 - 1:20 PM; Wednesday 11:30 – 12:20 and 3:30 - 4:20 PM; Thursday 12:30 – 1:20		
(c)	Location:	F-246		
(d)	Phone:	250 370-3984	Alternative Phone:	
(e)	Email:	blundond@camosun.bc.ca		
(f)	Website:			

**2. Intended Learning Outcomes**

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

- a. Use specialized software to solve statistical problems.
- b. Use R statistics to create graphs and perform statistical analysis.
- c. Evaluate parametric and non-parametric statistical test results.
- d. Describe and compare sampling designs.
- e. Describe and compare experimental designs.
- f. Identify assumptions and potential violations of specialized analysis.
- g. Compare univariate and multivariate analysis of data.
- h. Compose sampling and experimental designs for a variety of scenarios.
- i. Evaluate sampling and experimental results.
- j. Discuss the appropriateness of selected designs and multivariate analysis.
- k. Evaluate the results of multivariate analysis.

**3. Required Materials**

(a) Texts

Ecological Methodology by Charlie Krebs (available on his website and D2L)  
<http://www.zoology.ubc.ca/~krebs/books.html>  
Lectures and assignments posted on D2L.

(b) Other

Programs for Ecological Methodology, Version 7.02 by Krebs, C.J. 2009.  
PC-ORD Multivariate Analysis of Ecological Data, Version 6.  
R statistics (<http://www.r-project.org/>) – download this onto your computer.

#### 4. Course Content and Schedule

Schedule W2109						
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:30-9:20						
9:30-10:20		OFFICE HOUR		ENVR 229 001B Lab E110		
10:30-11:20		ENVR 229 Lecture WT102				
11:30-12:20				OFFICE HOUR		
12:30-1:20		OFFICE HOUR		OFFICE HOUR		
1:30-2:20		ENVR 246 Lab F244	ENVR 246 Lecture Y303C	ENVR 229 001A Lab E110		
2:30-3:20						
3:30-4:20				OFFICE HOUR		
4:30-5:20						
5:30-6:20						
6:30-7:20						
7:30-8:20						
8:30-9:20						

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

(a) Assignments

10 assignments – 50% (TBA)

(b) Quizzes

NA

- (c) Exams  
Lecture Exam I - 25%                      Week 9: E100 (Thursday March 7: 3 hours)  
Lab Exam - 15%                              Week 13: E110 (Thursday April 4: 3 hours)  
Lecture Exam II - 10%                    Week 14: E110 (Thursday April 11: 3 hours)
- (d) Other (e.g. Project, Attendance, Group Work)

NA

## 6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

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

The internet.

## 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.