



CAMOSUN COLLEGE
School of Arts & Science
Department of Environmental Technology

ENVR-229-001
Quantitative Assessment
Winter 2018

COURSE OUTLINE

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.

1. Instructor Information

(a) Instructor	Dr. David Blundon	
(b) Office hours	Monday 11:30-12:20 and 3:30-4:20; Tuesday 1:30-2:20 and 3:30-4:20; Wednesday 1:30-2:20	
(c) Location	F246	
(d) Phone	250-370-3984	Alternative: _____
(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. Use a calculator and specialized software to solve statistical problems.
2. Evaluate parametric and non-parametric statistical test results.
3. Describe and compare sampling designs.
4. Describe and compare experimental designs.
5. Identify assumptions and potential violations of specialized analysis.
6. Compare univariate and multivariate analysis of data.
7. Compose sampling and experimental designs for a variety of scenarios.
8. Evaluate sampling and experimental results.
9. Discuss the appropriateness of selected designs and multivariate analysis.
10. 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 (provided by the college)

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.
Microsoft Excel.

4. Course Content and Schedule

Introduction to Quantitative Analysis
Sampling Designs
Experimental Designs
Review of Descriptive Statistics
Probability Distributions
Review of Parametric versus Non-Parametric Statistics
Anova
Simple and Multiple Regression
Multivariate Analysis
Mark-Recapture Techniques, Removal Methods, Quadrat Counts
Line Transects and Distance Methods

5. Basis of Student Assessment (Weighting)

Lecture/Lab Exams - 50% (four noncumulative lecture and lab exams)

- Lecture/Lab Exam I – 10/10% Week 8: Lab Time (February 26 & 28: 3 hours)
- Lecture/Lab Exam II – 10/10% Week 14: Lab Time (April 9 & 11: 3 hours)
- Take Home & SimBio Tests: 10% TBA

Assignments - 50%

- 10 assignments (TBA)

Other (attendance)

Make-up lectures and labs are not offered. If you are unable to attend your regularly scheduled lecture or lab due to illness, contact the instructor. Lecture and Lab attendance is compulsory. You will lose 2% of your lecture mark for each lecture missed. You will lose 10% of your mark for each lab period missed.

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

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

N/A

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
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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.

Dr. David Blundon Schedule W2018

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:30-9:20		ENVR 246 Lab F244				
9:30-10:20						
10:30-11:20						
11:30-12:20	Office Hours					
12:30-1:20	ENVR 229 001B Lab E115					
1:30-2:20		Office Hours	Office Hours	ENVR 246 Lec F214		
2:30-3:20		ENVR 229 001A/001B Lec E201	ENVR 229 001A Lab E110			
3:30-4:20	Office Hours					
4:30-5:20		Office Hours				
5:30-6:20						