

CAMOSUN COLLEGE

ENVR 229: QUANTITATIVE ASSESSMENT

Course Information – Winter 2011

INSTRUCTOR: Dr. DAVID BLUNDON
OFFICE: Y-352
TELEPHONE: 370-3984
EMAIL: **D2L email only**



CONSULTATION

Office hours: see schedule

For an appointment or to leave a message call or email anytime.

LECTURE/LABORATORY see schedule

PREREQUISITE: BIOL 228 and MATH 216

COMPUTER PROGRAMS and WORD PROCESSING: Computers are available in Ewing

WEEKLY SCHEDULE: Five hours of lecture and lab
Expect to spend an additional 6 hours a week on this course outside of class time.

COURSE TEXTS (Available for purchase in the College Bookstore):

- Henderson, P. A. 2003. Practical Methods in Ecology. Blackwell Publ..

COMPUTER PROGRAMS (available for use in Ewing 100 and 112)

- Programs for Ecological Methodology, Version 7.02 by Krebs, C.J. 2009.
- PC-ORD
- Minitab 2010. Version 16.

ADDITIONAL REFERENCE MATERIAL:

- MATH 216 or other statistics text
- Other suggested and optional reading will be given in class.

ABSENCES:

- If you should miss a class, you should arrange to borrow notes from another student. You are responsible for all information (including exam dates and changes in course content or emphasis) covered in class.
- If you miss an exam you will receive a grade of zero for that exam unless you provide a note from your MD.

ASSIGNMENTS:

- Please note the cut off dates for the dropbox – submitting a late assignment is not possible.

LABORATORY INFORMATION:

- *Please comply with the general department policies. These will be outlined in your first lab period.*
- *Make-up labs are not offered. If you are unable to attend your regularly scheduled lab due to illness, contact the instructor. Lab attendance is compulsory. You will lose 5% of your lab mark for each lab period missed.*

MARK DISTRIBUTION:**Lecture/Lab Exams - 55%**

- Midterm Exam I - 15% (Week 8: Wednesday, March 2: 2 hours)
- Final Lab Exam – 15% (Week 14: Tuesday, April 12: 3 hours)
- Final Exam - 25% (Week 15: April 18-21: 3 hours)

Assignments - 45%

- 10 assignments (TBA)

Letter Grades:	A+	90-100%	A	85-89%	A-	80-84%
	B+	77-79%	B	73-76%	B-	70-72%
	C+	65-69%	C	60-64%	D	50-59%
	F	<50%				

A. LECTURE TOPICS:

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

B. LABORATORY TOPICS AND EXERCISES:

- Population Estimation:
 - Peterson, Schnabel & Jolly-Seber Mark-Recapture Sampling Methods
 - Catch Effort Methods for Exploited Populations
 - Line Intersect Methods
 - Aerial Methods
 - Maximum Likelihood Resight Method
- Descriptive Statistics
- Sampling: Random, Stratified and Two-Stage
- Experimental Design: Random and Block
- ANOVA Analysis
- Regression Analysis
- Multivariate Analysis

NAME: **Dr. David Blundon**

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Term: Winter 2011

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:30-9:20					
9:30-10:20		ENVR 229 X01B Lab E112			
10:30-11:20			ENVR 246 X01 Lec F244		
11:30-12:20	OFFICE HOUR				
12:30-1:20	OFFICE HOUR	OFFICE HOUR			
1:30-2:20	OFFICE HOUR		ENVR 229 X01B Lec E346	ENVR 246 X01 Lab F244	
2:30-3:20	OFFICE HOUR	ENVR 229 X01A Lab E100			
3:30-4:20					
4:30-5:20					
5:30-6:20					
6:30-7:20					
7:30-8:20					
8:30-9:20					