

CAMOSUN COLLEGE
MATHEMATICS DEPARTMENT
COURSE OUTLINE

MATH 219 Introduction to Probability and Statistics II

Instructor:

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Textbooks:

1. Devore, J. L. *Probability and Statistics for Engineering and the Sciences*, 5th Edition, Duxbury, 2000.
2. Susan Chen, *Math 219 Lab Manual*, Camosun College Print Shop.

Course Outline:

<u>Topic</u>	<u>Chapters</u>
Unit 1. Confidence Intervals for the Variance	7.4 plus notes
Unit 2. Inference Based on Two Samples	9.1 – 9.5
Unit 3. The Analysis of Variance	10.1 - 10.3
Unit 4. Multifactor Analysis of Variance	11.1 - 11.2
Unit 5. Simple Linear Regression and Correlation	12.1 - 12.5
Unit 6. Nonlinear and Multiple regression	13.1 – 13.5
Unit 7. Analysis of Categorical Data	14.1 - 14.3
Unit 8. Distribution-Free Procedures	15.1 - 15.3
Unit 9. Quality Control Methods	16.1 – 16.3

Statistical Software and Computer Lab: This course includes lab sessions designed to familiarize students with the use of a computer as a tool for statistical analysis. The software package used is MINITAB. **You must have a computer account and the Math 219 Lab Manual ready before your first lab.** The required lab manual is available in the bookstore at Lansdowne Campus. A lab assignment will be assigned for each lab session. All lab assignments are due in class, six days after they are assigned on the lab day. No late assignments will be accepted.

Calculator: A scientific calculator, preferably with statistical functions, is required.

Homework and Assignments: Homework will be assigned in the beginning of each section. Students are expected to do all the problems assigned. Students are also recommended to practice some of the unassigned odd number problems in the textbook. Assignments in worksheet form will be assigned once a week on average. These assignments will be collected and marked for credit. The key for earning a good grade in a Statistics course, in particular this course, is to do homework after every class and to stay on top consistently. Cramming will not work for this course.

Evaluation: A tentative schedule for the examinations and their percentages as that of the final grade are given in the table below. Each test covers material that has not been covered by the previous test(s). The final exam covers all material. The student's evaluation may be solely based the results of the final examination provided that all lab assignments and all homework assignments are completed.

All tests must be written during the scheduled period.

Test 1	Thursday, February 6	15%
Test 2	Thursday, March 6	15%
Test 3	Thursday, April 3	15%
Lab/Assignments	Weekly on average	10%
Final Exam	TBA	45%

NOTE: Final examinations will be held from April 14 to April 17, and from April 22 to April 25. You must be available to write the final exam at the scheduled time.

Grading:

A+ : 95 - 100%	B+ : 80 - 84%	C+ : 65 - 69%	F: 0 - 49%
A: 90 - 94%	B : 75 - 79%	C : 60 - 64%	
A-: 85- 89%	B-: 70 - 74%	D: 50 - 59%	