STAT 260 A01 CRN 13047 - Introduction to Probability and Statistics: I

TWF 11:30 - 12:20, DTB A110, University of Victoria, Fall 2014

Instructor: Prof. M. Lesperance Office: DTB A449 Email: mlespera@uvic.ca

Office Hours: Wed. 2:30-3:30, Thurs. 11:00-12:00, or by appointment.

Pre or co-requisites: Math 101, 103, 140, 208.

Course Credit: Credit will be granted for only one of Statistics 250, 254, 260. See "Credit Limit - Beginning Level Statistics Courses" at http://web.uvic.ca/calendar2014-09/FACS/UnIn/UARe/CoCr.html#CLLeSC

Required Textbook: Introduction to Probability and Statistics by Tim Swartz, Custom Edition (**cheapest option**) OR Essentials of Probability and Statistics for Engineers and Scientists by Walpole, Myers, Myers and Ye.

Optional Material: Student's Solution Manual by Myers and Ye.

Course Web Page: I will provide course information on the CoursesSpaces page (http://coursespaces.uvic.ca). Log in using your Netlink ID. Supplementary material will be provided here, including sample midterms and exams, tables, and formula sheets. NOTE: Coursespaces is the NEW version of Moodle.

Statistical Software and Computer Facilities: Locations of facilities and operating hours are posted on the University of Victoria website under Computing Facilities. PC stations in these facilities are loaded with R, the software package needed for the Stat 260 assignments. You will need a valid Netlink account to use these facilities. You can download R for free from www.r-project.org/.

Objectives: (i) To develop an understanding of the reasoning by which findings from sample data can be extended to general cases, (ii) To develop familiarity with some basic statistical methods, and (iii) to emphasize examples and applications from engineering and the sciences.

Topics to be Covered: Introduction and Descriptive Statistics (Chapter 1, 2), Probability (Chapter 3), Discrete Random Variables and Probability Distributions (Chapter 4), Continuous Random Variables and Probability Distributions (Chapter 5), Joint Probability Distributions and Random Samples (Chapter 5), Estimation and Hypothesis Tests based on a Single Sample (Chapter 6), Estimation and Hypothesis Tests based on Two Samples (Chapter 7)

Homework and Assignments: The Homework Assignment Handout contains reading/exercise sets. These sets will be assigned in order throughout the term at the rate of approximately one set per lecture. Numerical answers for all assigned exercises can be found in the back of the required text. Longer explanations are given in the optional Student's Solution Manual. These exercises are for practice only and should not be submitted for marking. Students should maintain an organized notebook of solutions to assigned exercises for convenient review of tests.

There are three R Assignments that are to be submitted for marking. The due dates for these assignments will be announced in class.

Quizzes A very short quiz will be administered at the beginning of Friday classes for weeks when there is no midterm scheduled. The material quizzed will be taken from the previous 3 lectures.

Examinations and Grading: The tentative schedule for the exams and their weights towards the final grade, are given in the table below. Exams will have both short answer questions and possibly full answer questions. The coverage for the midterms will be announced in class, roughly one-week before each midterm. Students are strongly advised not to make plans for travel or employment during the final examination period as special arrangements will not be made for examinations that conflict with such plans.

Components	Dates	Weights
3 R Assignments	TBA	4% (1 1/3% per assignment)
Midterm 1	October 1	12%
Midterm 2	October 29	12%
Midterm 3	November 26	12%
Quizzes	Sep 12, 19, 26	
	Oct 10, 17, 24	10%, best 6 of 8
	Nov 7, 21	
Final Examination	TBA	50%

Multi-Section Grading Policy: Statistics 260 is a multi-section course. In order to ensure fairness to students, all sections of the course will be using the same method of evaluation described above. In addition, consistent testing standards across sections will be maintained. All sections will write the same final examination, and all sections will have the same assignments.

Missed Midterms, Quizzes and Assignments: Regardless of the reason, there will be no make-up midterm exams. If you miss a midterm, quiz or assignment due to illness, accident, or family affliction, you should notify me as soon as possible, and provide a written request to be excused as well as supporting documentation. In such cases, your percentage allocation for missed midterm, quiz or assignment will be divided evenly among those you did write. For example, if you were to be excused from one midterm, then the two remaining midterms would each be worth 18% of your course score.

If you miss a midterm and the absence is not excused, zero marks will be awarded.

If you have a question or concern about your mark on a midterm, you must bring it to my attention within 7 calendar days of the date when it was returned in class.

Regardless of the reason, late R assignments will **not** be accepted for marking. Note that you may submit R assignments before the due date.

Grade Conversion Table: The table for converting final examination percentage scores into letter grades is:

Letter Grade	D	С	C+	В-	В	B+	Α-	Α	A+
Lower Bound	50%	60%	65%	70%	73%	77%	80%	85%	90%

Departmental Policies: Math department policies on calculators, final exam deferrals, attendance, and other topics are found at www.uvic.ca/science/math-statistics/undergraduate/course-policies/index.php. This link will also be available on the Moodle page.

Calculator: A Sharp EL-510R or EL-510RNB scientific calculator is required for this course (and other departmental courses). You can purchase it at the UVic bookstore (about \$11.00). This calculator is the only type permitted for exams, and you are required to remove the calculator cover during exams to avoid any accusations of cheating.

Attendance is required: Attending class is arguably the easiest and most important thing you can do to help your learning. If you miss an announcement (information concerning midterms, corrections to assignment, etc.) because you did not attend class, you are responsible for determining what announcements were made.

Math & Stats Assistance Centre: The Math & Stats Assistance Centre will provide you with drop-in assistance with statistics. The location and operating hours of the centre is found at www.math.uvic.ca/~msassist. This link can also be found on the course Coursespaces page.

Commitment to Inclusivity and Diversity: The Resource Centre for Students with a Disability (rcsd.uvic.ca) assists with academic accommodations for students with special needs.

Debarment from Examinations: As stated in the University Calendar, "...students may be assigned a final grade of N or debarred from writing final examinations if the required term work has not been completed to the satisfaction of the department concerned". Be advised that students in Statistics 260 who, regardless of the reason, have not attempted any of the three midterm examinations shall be debarred from writing the final exam and shall receive a final grade of N in the course. The university policy on debarment is found at web.uvic.ca/calendar2013/FACS/UnIn/UARe/EoStA.html .

Course Experience Survey I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey you will receive an email inviting you to do so. You will need to use your UVic netlink ID to access the survey, which can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.