University of Waterloo STAT231_01_05

STATISTICS 231: An Introduction to Empirical Problem Solving – Winter Term, 2005

Purpose: To introduce and to develop empirical problem solving methods.

Format:

Each lecture section involves four contact hours per week, in two 2-hour time slots; five of these slots will be laboratories. You need to select two laboratory partners before Laboratory 1 (in week 3 of term); these people will be your partners for all five laboratories.

A useful way to organize a laboratory group of three people is to think of one person as the manager of the other two people.

The laboratories are long and start on time, so you need to come prepared; if you arrive late, you may not be permitted to do the laboratory.

class is at 12.30- 2.20 in MC 2035 01: W. H. Cherry MC 6153 ext. 5507 Instructors: 02: P.K. Marriott MC 6096 ext. 5545 class is at 2.30-4.20 in MC 2035. MC 6139 ext. 5546 class is at 10.30-12.20 in MC 2035 03: P. Balka 04: W.H. Cherry MC 6153 ext. 5507 class is at 8.30-10.20 in MC 2035 05: S.H. Steiner MC 6020 ext. 6506 class is at 2.30-4.20 in MC 4020 **Assessment:** Better of Assignments (5×2) 10 Assignments (5×1)

Laboratory reports (5×2) 10 Laboratory reports (5×1) 5 Quizzes (5, 5)Ouizzes (10, 10) 20 10 Final examination 60 Final examination 80;

A passing grade on the final examination is normally needed to pass the course.

Office Hours (W.H.C.): Monday, Tuesday and Wednesday, 3 to 4 pm.

Please use your *own* instructor's office hours, not those of the (P.K.M.): Tuesday, Thursday, 11 am to 12 pm, Wednesday, 3 to 4 pm. instructor for a different lecture (P.B.): Monday, Wednesday and Thursday, 1.30 to 2.30 pm; (W.H.C.): Monday, Tuesday and Wednesday, 3 to 4 pm.

(S.H.S.): Tuesday and Wednesday, 1.30 to 2.30 pm.

Tutorial Centre: Teaching assistants will be available in the Statistics Tutorial Centre, MC 6095, to help with laboratory reports and studying for quizzes, at times to be announced in class.

Text: Course Notes (**not** appreciably revised from the Fall term) and separate Laboratories (**revised** from the Fall term) are available for purchase (at about \$20 and about \$6, including PST and GST) at the Pixel Planet, MC 2018; the Notes include expository text and exercises, statistical tables and old final examinations.

Many of the examples and problems discussed in STAT 231 require an understanding of their context; it is your responsibility to ask questions if the context is not clear to you.

If you are having difficulty with the material, it is your responsibility to make use of the resources provided (exercise solutions, T.A. Statistics Tutorial Centre hours, instructor office hours).

Course Calendar:	WEEK STARTING		2-HR TIME SLOT		OTHER COURSE ACTIVITIES		
	January	03	Chapter 1	Chapter 2			
	•	10	Chapter 3	Chapter 4			
		17	Laboratory 1	Chapter 5		Laboratory 1 report	For Prof. Steiner's 2.30 pm
		24	Chapter 6	Chapter 7		Assignment 1	lecture Section 5, there will be interchange of: Laboratory 1 and Chapter 5; Laboratory 4 and Chapter 12. The laboratory report is still due at the end of the laboratory period.
		31	Laboratory 2		Quiz #1	Laboratory 2 report	
	February	07	Chapter 8	Chapter 9		Assignment 2	
		14	Laboratory 3	Chapter 10		Laboratory 3 report	
		21	Chapter 11			Assignment 3	
		28	Laboratory 4	Chapter 12		Laboratory 4 report	
	March	07	Chapter 13		Quiz #2		
		14	Chapter 14	Chapter 15		Assignment 4	
		21	Laboratory 5	Chapter 16		Laboratory 5 report	
		28	Chapter 17	Chapter 18		Assignment 5	
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(continued overleaf)

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Attendance at laboratories is *mandatory* – proper documentation must be provided for reasons (e.g., illness) for missed laboratories.

Each laboratory report is due no later than the *end* of the laboratory (20 minutes after the hour); *one* report is to be done by each group of three (you and your two laboratory partners).

Please make *sure* you are registered in the section whose classes and laboratories you attend.

 Quizzes:
 Date
 Material covered
 Locations

 Thursday, February 3
 Chapters 1-7, Laboratories 1, 2 Thursday, March 10
 DC 1350, MC 2035, 2038, 4020, 4021, 4059, 4061 DC 1350, MC 2035, 2038, 4020, 4021, 4059, 4061

 The quizzes will be up to 1½ hour long and will start at 4.45 pm; please sit in alternate seats in your quiz room.

Solutions:

Solutions to the laboratories will be posted in a display case, in the hallway outside the Statistics Tutorial Centre, MC 6095, the day after the due date and they will stay up until after the marked reports are returned, typically for three weeks in total. These solutions will *not* be available in any other manner at any other time, so please check your report against its outline solution during the time it is posted.

R Link: http://www.stats.uwaterloo.ca/Stats Dept/StatSoftware/R/

R Tutorial: Go to the R-Tutorial link and select the appropriate computing environment;

before Assignment 1, due in the week of January 24, 2005, do all nine pages of the tutorial.

Practice Problems: These are provided in the Course Notes at the end of the chapters.

Web page: Course information and solutions to the quizzes will be posted in Angel: http://uwace.uwaterloo.ca

Course web page is at: http://www.student.math.uwaterloo.ca/~stat231/stat231_01_05/ You can also follow the **Past Terms** links, starting at stat231_01_02, to useful information.

Final Examination: The final examination will be 3 hours in duration and will be held in the normal examination period

(April 8 to April 21); the permitted aids are a calculator and a dictionary. Copies of statistical tables

(Appendix B of the Course Notes) will be provided.

Cheating: Don't. Any and all instances of cheating will be severely dealt with; possible penalties include *suspension* and *expulsion from the University*. Cheating includes copying the work of others (including previously published solutions) on laboratories, quizzes or midterms and examinations.

If you get help with laboratory reports, make *sure* you give clear and explicit acknowledgement of this help in your submission.

Your instructor may ask you for an explanation of widely divergent grades between laboratory reports and the quizzes and final examination.

04-12-20