

University of Calgary
Faculty of Science
Department of Mathematics and Statistics
Course Information Sheet

1. Course: **STATISTICS 213 - Introduction to Statistics I**

Lecture/Time/Session: L 91 / M.W. 19:00 FALL 2003

Place: ST143

Instructor: Kris Vasudevan, Ph.D., P.Geoph.

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(\$ under construction)

2. Pre-requisite(s): MATH 30 or equivalent

Co-requisite:

NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined on page 198 of the University of Calgary 2003-04 Calendar. It is the student's responsibility to ensure that they have the pre- and/or co-requisites for the course, and if they do not they will be withdrawn from the course, without further notice.

3. The University policy on grading and related matters is described on pages 41- 45 of the 2003-04 Calendar. In determining the overall grade in the course, the following weights will be used:

Midterm Test [1]	15%
Quizzes[5 out of 5]	40%
Final Examination	45%

There will be a final examination scheduled by the Registrar's Office.

4. Missed Components of Term Work. The regulations of the Faculty of Science pertaining to this matter are outlined on page 199 of the 2003-04 Calendar. It is the responsibility of the student to familiarize herself/himself with these regulations.

5. Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all classes. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the 2003- 2004 University Calendar under the heading "Student Misconduct", pages 50-55.

6. Dates and times of class exercises held outside of class hours: There will be no out-of-class-time activities.

7. **Text Book: Statistics (Ninth Edition), J.T. McClave and T.Sincich, Prentice Hall, Inc., New Jersey, U.S.A. (2003).**

8. The quiz component is made up of four quizzes and one lab-based quiz. Quizzes, each of 30 minutes duration, will be administered during the regularly scheduled tutorial times for this lecture section (Monday and Wednesday).

All five quizzes will count towards the final grade.

The **quizzes** will take place on the following dates*: **(1) Sep.22; (2) Oct. 6; (3) Nov. 3; (4) Nov. 19; (5) Dec. 2.**

There will be a **one-hour mid-term test**, written during the lecture period on **Oct.22**, and a **two-hour final examination** scheduled by the Registrar.

9. Calculators (but not laptop computers) will be permitted in all quizzes, tests and exams. The quizzes will be "closed-book" - no texts, notes or aid-sheets will be allowed.

One 8.5" x 11" aid-sheet will be permitted for the midterm test (writing on one side only) and for the final examination (writing on both sides of the sheet allowed).

10. A set of six homework assignments will be given in class*. These assignments will be neither handed in nor marked for credit. It is highly recommended that you work through each assignment, since each assignment will cover the topics for the next quiz, and working the problems out will be good preparation for the quiz. **Solutions will be posted two days before each quiz on the bulletin board outside the class room MS527.**

During the "non-quiz" tutorial periods, the tutorials will be used to show you how to use the statistical software* available on the terminals in the lab. and to practice solving problems*. There will be NO tutorials during the first week of class. Tutorials will start on Sep. 15. *We intend to use Minitab software in the lab. for problem solving.

Lectures include problem work-outs which require the use of calculators.

* Please check the course outline included in the information sheet for details.

11. In addition to the assistance provided by the lecturer and tutorial instructor, a continuous tutorial is available each weekday. There, students may obtain help from the faculty member or teaching assistant in attendance. The continuous tutorial room is MS571 and is open according to the following schedule: Monday 11:00 to 14:00; Tuesday 12:00 to 16:00; Wednesday 11:00 to 15:00; Thursday 12:00 to 15:00; Friday 12:00 to 15:00.

12. The Society for Calgary Undergraduate Mathematics (SCUM) is located in MS 337A. They sell exam packages, run final reviews, and can often assist with problems. The office is open from 10:00 to 15:00 (Monday to Friday), and you are welcome to drop by. (Posted at the request of SCUM President, Paul Dickinson, MS 337A).

You must have an AIX account to be able to use the computers in the STAT213 laboratory. For information to get an AIX account as a registered student at University of Calgary, please go to

<http://www.ucalgary.ca/it/accounts/>

You should have valid userid and password before the week of September 15, 2003.

STAT 213 Fall 2003 Instructor: K. Vasudevan
Course Outline (subject to change)

Week	Text Material	Topics
Sep. 8 / Sep. 10	Ch. 1, 2	Sampling / Descriptive Statistics
Sep. 15 (A1,L) / Sep. 17(P1)	Ch. 2, 11	Descriptive Statistics / Linear regression
Sep. 22 (Q1) / Sep. 24	Ch. 11	Bivariate Data, Linear Regression
Sep. 29 (A2,L) / Oct. 1(P2)	Ch. 3	Probability
Oct. 6 (Q2) / Oct. 8	Ch. 3	Probability
Oct. 13		
Oct. 15 (L)	Ch. 4	Random Variables
Oct. 20 (L) / Oct. 22(MT)	Ch. 4	Discrete Distributions
Oct. 27 (A3,L) / Oct. 29(P3)	Ch. 4	Discrete Distributions / Expectations
Nov. 3 (Q3) / Nov. 5	Ch. 5	Continuous Random Variable
Nov. 8 - Nov. 11		
Nov. 12 (A4)	Ch. 5	Reading Break - No lectures Normal Distribution / Sampling Distribution
Nov. 17 (P4) / Nov. 19 (Q4)	Ch. 6	Sampling Distribution / Estimation
Nov. 24 (A5) / Nov. 26 (A6, L)	Ch. 7, 8	Estimation / Hypothesis Testing
Dec. 1 (Q5) / Dec. 3 (P5)	Ch. 8, 11	Hypothesis Testing / Linear regression revisited
Dec. 8 (R)		Final Review
Dec. 9 – 19 (Final)		Date and location are scheduled by the Registrar.

A: Assignment

MT: Mid-Term Examination

P: Problem Work-Out Session

Q: Quiz

F: Final Examination

R: Review

L: Minitab Lab or MATLAB