



INTRODUCTORY STATISTICS

INSTRUCTOR: Brooke Alsbury
OFFICE HOURS: By appointment
OFFICE LOCATION: 2911 A
TELEPHONE/E-MAIL: 668-3245, balsbury@northwestel.net

COURSE OFFERINGS

DAY & TIMES:

Classes: Mon & Wed	Tutorials: Fridays
Time: 10:30 – 12:00	Time: 1:00 – 2:30 pm
Room: A2202	Room: A2202

COURSE DESCRIPTION

This is a first course in Statistics. Topics include descriptive statistics (histograms, mean, median, mode, standard deviation, normal approximations and measurement errors); correlation and regression; probability; chance variability; sampling; and hypothesis testing (including one-sample, two-sample, ANOVA, and chi-squared).

The objective of the course is for students to gain a good intuitive understanding of statistical principles and methods. At the end of the course, students should be able to use elementary statistical techniques, and to critically assess statistical work done by others. The course is not intended to be a mathematical treatment of statistics, but a good knowledge of high school algebra is critical.

COURSE TRANSFER

UBC Stat 203 (3) Note: not for Faculty of Science or Math students.	SFU Stat 101 (3)
UAF Stat 200 (3)	UVIC Stat 100-level (1.5)
UR Stat 151 (3)	UAS Stat 273 (3)
	UNBC Math 242 (3)

For more information about transferability contact the School of Liberal Arts.

COURSE PREREQUISITES

Admission to the School of Liberal Arts and Algebra 12.

COURSE FORMAT (3-1-0)

Lectures: Three hours per week

Tutorials: One hour per week

The course content is covered through lectures, tutorials and assignments. Students are expected to prepare for each class by doing assigned readings from the textbook and are also expected to engage in substantial self-directed review and practice of the material.

ATTENDANCE

Attendance is crucial to success in this course. Missing classes will directly affect one's understanding of the materials, and consequently one's grade. Attendance at tutorials is strongly recommended. Daily Journals (see below) are completed in class and make up 10% of the final grade for the course.

ASSIGNMENTS

Problems will be assigned on a regular basis. Assignments will be due at **THE BEGINNING OF CLASS** on the specified date. Late assignments **WILL LOSE 20% PER DAY** starting on the due date, and **WILL NOT BE ACCEPTED** more than 3 days after the due date. (E.g. if the assignment is due at the beginning of class on Monday, it will lose 20% if handed in later in the day, 40% if handed in Tuesday, 60% if handed in Wednesday, and will not be accepted after Wednesday). Assignments will be marked and returned promptly and will be gone over in class or in tutorials, so late assignments cannot be accepted after the cut-off. Unsupported answers will not be given credit.

DAILY JOURNALS

The first **five minutes** of every class will be devoted to writing a brief journal entry on your feelings and experiences in this course. Students are encouraged to be honest and reflective in their entries – to write about concepts or procedures that are confusing you, something you have recently grasped, something you've learned that excites you, something that is bothering you about the instructional approach – anything about the course. (Please note, however, that Yukon College does not tolerate harassment of any kind, and journal entries should adhere to principles of respect for others; refer to CR-07 Human Rights Policy). The instructor will collect the daily journals and will use them to make adjustments to course content. You will not be evaluated on the content of your writing. If you attend class and turn in all the daily journals, they will be worth a total of 10% towards your final grade. Any day that you miss, are late, or do not complete a journal, you will have 0.4% deducted from your final grade. These entries will **not be accepted late** – so please try to arrive on time for class.

TUTORIALS

Tutorials will be used for review and practice of problems and techniques of statistics, focusing on areas of weakness as identified by students and/or the instructor. Answers to returned assignments will also be gone over in tutorials. Attendance is strongly recommended.

MID-TERM TEST

There will be one mid-term test given during class. If your final exam mark exceeds your midterm exam mark, then only the final exam mark will be counted. However, students are strongly advised not to go easy on the mid-term, assuming they will do better on the final. The final exam content is cumulative and builds on that in the mid-term. **This privilege does not apply if you did not write the mid-term. Skipping any exam in this course results in an automatic failing grade.**

FINAL EXAMINATION

A cumulative final examination will be held at the end of the term. The examination date will be announced as soon as it is confirmed by the School of Liberal Arts. Although cumulative, the emphasis will be on materials covered after the mid-term. Keep in mind that the materials covered after the mid-term exam build on those covered earlier in the course.

SCHEDULED EXAMINATION DATES

Students should be aware that there is a 2 week period for Final Examinations at the end of the semester, and the Math 105 exam could be as late as April 29th, 2011.

EVALUATION

Evaluation will be based on assignments, the mid-term test and the final examination:

Assignments (10 @ 3% each)	30	
Daily journal (25 @ 0.4% each)	10	
Mid-term test	20	
Final examination	<u>40</u>	(Or 60% Final, if mark greater than midterm)
	100 %	

IMPORTANT NOTE: ALL EVALUATIVE REQUIREMENTS for Math 105 are mandatory, and must be completed and submitted to the instructor prior to the final examination for the course. A failure to complete any of the evaluative requirements for Math 105 will automatically result in a grade assessment of “fail” for the course. Specifically, if you do not hand in at least 5 out of the 10 assignments, or if you fail to complete at least 13 of the 24 daily journals, or if you miss a test, you will fail this class.

WRITING CENTRE

All students are encouraged to make the Writing Centre a regular part of the writing process for coursework. Located in Room C2211 (in the College Library), the Writing Centre offers writing coaching sessions to students of all writing abilities. For further information or to book an appointment, visit the Centre's website: dl1.yukoncollege.yk.ca/writingcentre

At the instructor's discretion, students may be required to attend Writing Centre coaching sessions during the composition process of their paper(s) as a condition of assignment completion. The number of sessions required per assignment will be specified on the assignment sheet, and the Writing Centre will issue written confirmation of attendance, which should be attached to the written work being submitted for evaluation.

TEXT

Triola, M.F., Goodman, W.M., Law, R. & Labute, G. (2011). *Elementary Statistics* (3rd Canadian ed.). Toronto: Pearson Canada Inc.

ADDITIONAL EQUIPMENT AND SUPPLIES

You will also require a scientific calculator for this course. It need not be a graphing calculator, but it should be capable of square roots, powers, exponents, and factorials.

READINGS

Readings will be assigned from the textbook. Additional handouts and materials, including journal articles, may be also be assigned for reading. Students are expected to read the materials **before** classes, as this course is fast-paced and will be difficult to follow for those who have not come prepared. Those who keep up by doing the readings before class, attending all classes, and completing all assignments on time will get the most out of Statistics.

STUDENTS WITH DISABILITIES OR CHRONIC CONDITIONS

Reasonable accommodations are available for students with a documented disability or chronic condition. It is the student's responsibility to seek these accommodations. If a student has a disability or chronic condition and may need accommodation to fully participate in this class, he/she should contact the Learning Assistance Centre (LAC) at (867) 668-8785 or lassist@yukoncollege.yk.ca.