

Math 0212:
Quantitative Methods for the Health Scientist
Fall 2018

Instructor: Alex Hudyma **Office:** RB 2006 **Email:** akhudyma@lakeheadu.ca

Class Times: Tuesdays and Thursdays, 4:30-6:00 pm in AT 1003.

Lab Times: Tuesdays and Thursday, 6:00-6:30 pm in AT 1003.

Office Hours: Wednesdays, 12:30-2:30 pm in RB 2006, or by appointment.

Textbook: *Elementary Statistics: A Brief Version*, 8th Edition, by A. G. Bluman.

Course Webpage: There is a webpage for the course on mycourselink through myinfo. Assignments and solutions, quizzes, lecture notes, the syllabus, and any other course information will all be posted here.

Course Content: We will cover the majority of the textbook material. By the end of the course students will be able to: summarize raw data graphically; calculate measures of central tendency and variation for data sets and distributions; compute basic probabilities and expected values; make predictions using the normal distribution; construct and utilize confidence intervals; perform hypothesis testing and draw appropriate conclusions; describe relationships between variables using correlation coefficients and regression lines; use the chi-square distribution to analyze sample data; and compare two or more population means using one way Analysis of Variance.

Labs: The half hour lab after lecture will give students the opportunity to ask questions about course content and practice problems. There will also be participation quizzes given during lab time (see “Bonus Marks”).

Class Policies: Showing up to class on time, keeping your phone on silent, sitting in the back of the class if using a laptop computer, and limiting talking to outside of the classroom are all ways to respect myself and your fellow students. Lakehead University will not tolerate any form of harassment or discrimination to students or instructors. Academic dishonesty (plagiarism, cheating, or impersonation of any kind) is a serious offence and penalties will be strictly enforced.

Grading Scheme:	Assignments	15%
	Test I	25%
	Test II	25%
	Final Exam	35%

Assignments: Homework will be assigned almost every week and is to be submitted to the assignment box on the second floor of the Ryan Building the following Friday. Assigned questions will be taken from the textbook. All assignments must be stapled together and include your name, student number, the assignment number, and the course number. Please note that late assignments will not be accepted under any circumstances, but your lowest assignment mark will be dropped in calculating your final grade.

Tests: There will be two tests given during lecture time, tentatively scheduled for Thursday October 4th and Thursday November 8th. You will be allowed a nonprogrammable calculator and one double-sided 8.5x11" sheet of notes. Please note that there will be **no** makeup tests. If a legitimate and documented reason is given (i.e. doctor's note) no later than 10 days after missing a test, then the weight will be transferred to the other test.

Final Exam: The final exam will be scheduled by the registrar during the examination period. You will be allowed a nonprogrammable calculator and two double-sided 8.5x11" sheets of notes. The final will be a three hour cumulative exam.

Bonus Marks: There will be nine online quizzes during lab time throughout the semester. These will be completed via myCourseLink for participation and not graded. Each quiz completed will earn one extra mark on the final exam, for a total of up to 9% bonus on your final exam grade.

Accommodations: Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities and/or medical conditions to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please contact Student Accessibility Services <http://studentaccessibility.lakeheadu.ca> (SC0003, 343-8047, or sas@lakeheadu.ca).

Important Dates:	September 4 th	First Day of Fall Term
	September 17 th	Final Date to Register
	October 4 th	Test I
	October 8 th	Thanksgiving (University closed)
	October 9 th -12 th	Fall Reading Week
	November 8 th	Test II
	November 9 th	Final Date to Withdraw
	December 3 rd	Last Day of Fall Term
	December 6 th -16 th	Examination Period
	December 17 th	Exam Contingency Date
	December 21 st	Marks Due