

# STAT\*2060: Statistics for Business Decisions

## Course Outline

### General Information

**Course Title**

Statistics for Business Decisions

**Course Description**

This course is designed for students interested in the application of statistics in a business setting. Topics covered will include the role of statistics in business decisions, organization of data, frequency distributions, probability, normal and sampling distributions, hypothesis tests, linear regression and an introduction to time series, quality control and operations research.

**Credit Weight**

0.50 credits

**Department**

Mathematics and Statistics

**Campus**

University of Guelph

**Semester Offering**

Winter 2016

**Prerequisites**

(4U mathematics or equivalent) or 0.50 credit in mathematics.

**Class Schedule and Location**

Monday, Wednesday, Friday (12:30-1:20), Rozanski 101.

### Instructor Information

**Instructor**

Andrew Skelton

**Instructor E-mail**

skeltona@uoguelph.ca

**Office Hours**

Tuesday (3:30-4:30), Wednesday (11:00-12:00, 2:00-3:00), MacNaughton 517.

## Course Content

### **Lecture Content**

- organization and display of data;
- frequency distributions;
- probability;
- normal distributions;
- sampling distributions;
- confidence intervals;
- hypothesis tests;
- linear regression;

### **Course Assignments and Tests**

- 15% - Assignments (7; January 22, 29; February 12, 26; March 11, 18; April 1)
- 15% - Term Test #1 (Wednesday, February 3 in class)
- 15% - Term Test #2 (Wednesday, March 2 in class)
- 15% - Term Test #3 (Wednesday, March 23 in class)
- 40% - Final Exam (Wednesday, April 13, 11:30-1:30, location TBD)

## Course Resources

### **Required Texts**

*Course Notes for STAT\*2060*, by Peter Kim. (2015).

### **Course Website**

Course announcements, blank lecture notes, practice questions and grades will be posted on the course website. <https://courselink.uoguelph.ca>. It is your responsibility to check that posted marks are accurate.

## Course Policies

### **Assignments**

Assignments will be held online using Maple TA. Each assignment will be first made available at 9:00am on the Monday immediately before the listed due date. It will then close on Friday at 4:00pm on the listed due date. Do NOT leave your assignment to the last minute; computer failures will not be accepted as a valid excuse for failing to submit your completed assignment.

### **Use of electronic devices and recording of lectures**

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

## **University Policies**

### **Academic Accommodation of Religious Obligations**

If you are unable to complete a course requirement due to religious obligations, please let the instructor know within the first two weeks of class. See the academic calendar for more information:

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml>

### **Academic Consideration**

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, student ID#, and e-mail contact. See the academic calendar for information on regulations and procedures:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

### **Academic Misconduct**

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

### **Accessibility**

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible. Contact CSD at 519-824-4120 ext. 56208 or email [csd@uoguelph.ca](mailto:csd@uoguelph.ca).

### **Drop Date**

The last date to drop this course, without academic penalty, is Friday, March 11. For regulations and procedures for Dropping Courses, see the Academic Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>