

**Instructor:** Karla Fox

Department of Mathematics and Statistics, 585 King Edward Ave.

**Office** B07-B

**Email:** kfox2@uottawa.ca

**Course hours:**

Tuesday 17:30–18:50 MHN 033

Thursday 17:30–18:50 MHN 033

**Office hours:**

Tuesday 19:00 - 20:30 (B07-B, 585 King Edward) or by appointment.

**Help Center** (Marion 021)

The Department of Mathematics and Statistics provides a help center in Mathematics and Statistics in room MNR 021 to get help for your introductory statistics course. You do not need an appointment. It is strongly advised not to wait until the eve of a test or an exam before consulting the Help Center because the center could possibly be very busy.

- Consult <http://science.uottawa.ca/mathstat/en/help-centre>

**Textbook:** Essentials of Probability & Statistics for Engineers & Scientists, by Walpole, R. E., Myers, R. H., Myers, S. L., and Ye, K. I will indicate the parts of textbook that corresponds to the different sections of a course as the course progresses. I may provide additional material. We will be covering chapters 1-7.

**Official Description of the Course:** A concise survey of: combinatorial analysis; probability and random variables; discrete and continuous densities and distribution functions; expectation and variance; normal (Gaussian), binomial and Poisson distributions; statistical estimation and hypothesis testing; method of least squares, correlation and regression. The emphasis is on statistics and quality control methods for engineers.

**Prerequisite :** MAT1320 ou MAT1330.

**Co-requisite:** MAT1322 ou MAT1325 ou MAT1332.

The courses MAT2377, MAT1371, MAT1372, MAT2371, MAT2375, MAT2378, MAT2379, ADM2303, ECO3150, HSS2381, PSY2106 cannot be combined for credits.

**Evaluation:**

- A) If the grade on the final exam is less than 40%, then the final grade is F
- B) If the grade on the final exam is more than 40%, then the final grade is calculated as follows: Assignments 15%, Midterm exam 25%, Final exam 60%
- C) If the grade on the final exam is higher than that on the midterm, or the midterm is missed due to illness, the final exam will replace the midterm (i.e. the final exam will count for 85% of the final grade and assignments for 15%). Students must write the final exam.

**TA:** TBD

**Assignments:**

May 25<sup>th</sup>, June 8<sup>th</sup>, July 6<sup>th</sup> and July 20<sup>th</sup>

The assignments must be handed in at the department of mathematics by 1 p.m.

**Exams:**

Mid term is in class, June 12<sup>th</sup>.

Final exam is July 26<sup>th</sup> from 19:00-22:00 in room CRXC240

**Software:** I will illustrate concepts using software called R. You will be required to do some questions using R. This is free software. I suggest you use R.Studio.