MAT 2377 3X (Spring 2011)
Probability and Statistics for Engineers

Professor : Gilles Lamothe
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Course Schedule: Tuesday 17:00 - 19:00 STE H0104
Thursday 17:00 - 19:00 STE H0104

Office Hours : Wednesday from 17:00 to 19:00, KED B07-D. For your needs, I reserved two hours per week exclusively for your questions. Do not be shy, come and see me without an appointment, at my office (see above for location) on Wednesday from 17:00 to 19:00. I can also see you outside of these hours, but then you have to book an appointment beforehand (by email or by telephone).

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.

Prerequisites :
One of MAT1322 or MAT1332. This course cannot be combined for credit with MAT1371, MAT1372, MAT2371, MAT2375, MAT2378, MAT2379, ADM2303, ECO3150, HSS2381 or PSY2106.

Textbook: *Applied Statistics and Probability for Engineers*, fifth edition by Douglas C. Montgomery and George C. Runger. The professor will indicate the parts of textbook that corresponds to the different sections of a course as the course progresses.

Internet Resources: There is a Blackboard Vista site that you can access at the following address: **www.maestro.uottawa.ca**. Use your student number and InfoWeb password to access the virtual campus. This site will contain announcements relevant to the course.

Studying and exercises : As with all of your other courses, the key to success in this course is to get to work from the beginning of the semester. This work takes generally two complementary forms: a regular review of your courses notes (and the relevant sections of the textbook), and workout relevant exercises each week to deepen your understanding of the material covered in class.

Notes: We strongly advise you to take notes during the lecture. Then (preferably later in the same day), revise and supplement your notes with the help of the textbook. If possible, try to work out some suggested exercises. If you find that you have difficulty with a concept or some exercises, it is important to consult the teacher as soon as possible. To understand the concepts covered later in the semester, you must have a good understanding of concepts covered earlier. The more you wait, the more difficult will be your learning. It is also advised to read before the lecture to identify points that need to be clarified.

Exercises : Solving exercises regularly will serve two ends: 1) deepen your understanding of the material covered in class, and 2) indicate (in the case where you have difficulties solving many problems in a same section) the location where the material has not been well understood. In the second case, we suggest you go back to the relevant sections of your notes and/ or textbook to try to obtain clarifications. If you still have difficulties, see the teacher as soon as possible.

Midterm: The midterm will be held in class on **Tuesday, June 14**.

FINAL EXAM : The exam of three hours will be held during the examination period (from July 18 to July 22) and will cover all subject matter seen during the semester. It is your responsibility to determine the date, place and time of the final exam. Do not rely on your friends. An error from them could cause you many troubles. In addition, never write an examination, especially a final exam, if you are sick. We can not take this into account after the fact. Check the regulations on this issue in the regulations of the Faculty of Sciences (Section 3.2 of the academic regulations).

Final Grade : If your mark on the final examination is less than 40%, the mark on the final exam will be your grade in the course. If your mark on the final is 40% or more, your grade in the course will be calculated as follows:

Midterm	25%
Assignments	25%
Final Exam	50%

- Late assignments will not be accepted.
- There will be no make-up test: if you are unable to write the test and you have valid supporting documentation then your final exam mark will count as your midterm mark.
- If you are unable to write the final exam, then the policies of the Faculty will apply.

Note that this syllabus is subject to modification. Modifications will be announced in class and/or on the website of the course.