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**MAT 2371 (Fall 2016)**  
**Introduction to Probabaility**

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**Course Schedule:** Tuesday 10:00 - 11:30 TBA  
Thursday 08:30 - 10:00 TBA

**Office Hours :** Monday from 12:00 to 2:00, and Thursday 10:30 to 12:00 in KED 207-D. For your needs, I reserved three 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). 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, MAT2371:** Probability axioms and their consequences. Conditional probability and independence. Random variables, distributions and densities, moments, sampling distributions. Weak law of large numbers, sums of independent random variables, moment generating functions, convergence concepts, the central limit theorem.

**Prerequisite :** MAT1322 or MAT1325 or MAT1332. The courses MAT2371, MAT2377, ADM2303, ECO3150, HSS2381, PSY2106 cannot be combined for credits.

**Textbook:** *Probability and Statistical Inference, 9th edition* by Hogg, Tanis, Zimmerman.

**Note:** If you would like to use other editions of the textbook, it is your responsi-

bility to verify the textbook, its chapters and the questions for assignments. 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 Learn site** that you can access at the following address: <https://uottawa.blackboard.com/>. Use your student number and InfoWeb password to access the virtual campus.

**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 either the teacher or the help centre 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 professor as soon as possible.

**Midterm:** The midterm will be held in class on **Tuesday, November 1, 2016**. The test will be closed book. A formula sheet will be attached to the exam

**FINAL EXAM :** The exam of three hours will be held during the examination period and will cover all subject matter seen during the semester. The final exam is a closed book exam and a formula sheet will be attached to the exam if necessary. 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, see <http://www.science.uottawa.ca/students-etudiants/ugrad/exams-information.html>.

**Final Grade :** If you miss your mid-term exam for an acceptable reason, your mark on the final will be based on 80%. 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	20%
Assignments	20%
Final Exam	60%

- Late assignments are not going to 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.

**Sexual Violence:** The University of Ottawa does not tolerate any form of sexual violence. Sexual violence refers to any act of a sexual nature committed without consent, such as rape, sexual harassment or online harassment. The University, as well as student and employee associations, offers a full range of resources and services allowing members of our community to receive information and confidential assistance and providing for a procedure to report an incident or make a complaint. For more information, visit [www.uOttawa.ca/sexual-violence-support-and-prevention](http://www.uOttawa.ca/sexual-violence-support-and-prevention).

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