

**University of Regina**  
**Statistics 851–Probability**

**Lecture:** MWF 1330–1420 in Classroom Building, room 435 (CL 435).

**Instructor:** Michael Kozdron  
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**Office Hours:** W 1210–1320 or by appointment

**Recommended Text:**

J. Jacod and P. Protter, *Probability Essentials*, second edition, Springer 2004.

**Course Description:**

Measure spaces, independence, expectations, convergence theorems, distribution functions and characteristic functions.

**Prerequisites:**

No formal prerequisites are required, although this course is offered exclusively for graduate students. To quote from the introduction in the text: No probability background is assumed. The reader should have a good knowledge of (advanced) calculus, some linear algebra, and also “mathematical sophistication.”

**Student Responsibilities:**

Students should be familiar with all relevant sections of the *Faculty of Graduate Studies and Research Academic Calendar*. See <http://www.uregina.ca/gradstudies> for the official version.

**Grading Information:**

Your final grade will be determined by your performance in the course as follows.

<b>Evaluation Type</b>	<b>Percentage of Final Grade</b>
Assignments	10%
Midterm Exam #1	20%
Midterm Exam #2	20%
Take-Home Final Exam	50%

As noted in the *Faculty of Graduate Studies and Research Academic Calendar*, graduate students must achieve a grade of 70% or more in order to receive credit for Stat 851. Consequently, a grade of at least 70% on the final exam is necessary (but not sufficient) in order to receive a grade of at least 70% for the course. Furthermore, as required by FGSR, students must demonstrate competence in writing skills when submitting work to be graded.

**Participation, Attendance, and Office Visits:**

Although this will be primarily a lecture-based course, students are expected to attend class regularly and contribute to any in-class discussions that arise. Furthermore, each student is expected to occasionally attend office hours to discuss the course and your progress.

**Assignments:**

As is the norm in a graduate course, it is impossible to learn all of the material just by attending lecture. It is vital that each student take an active role in his or her own education by attempting to solve problems. In fact, most of what you learn in this course will be the result of working exercises that are designed to reinforce key concepts, develop skills, and test your understanding of the material. Before you try working the exercises, however, do the reading assignment. Reading the text will help you review the important concepts before you start on the exercises. Some of the exercises are straightforward, others are very complex. After each class meeting, you should work all problems assigned from the section discussed that class. Assignments will take on the average 15–20 hours. (See also the section below on Academic Integrity.)

**Exam Dates:**

The midterm exams will be held in class during the usual class time, and the location of the final exam will be determined by the Registrar near the end of the term.

- Midterm Exam #1: **Friday, October 11, 2013, 1330–1420**
- Midterm Exam #2: **Friday, November 8, 2013, 1330–1420**
- Take-Home Final Exam: due by 5:00 pm on **Friday, December 20, 2013**

**Email:**

Email will be a significant form of course related communication between both students and the instructor. Therefore, please check your email regularly for course updates and homework information. Feel free to email your questions to me. I will endeavour to respond within 24 hours. Should you not receive a reply within 24 hours, try sending the message again, or ask me in person if I received your mail.

**Academic Integrity:**

For a university community of scholars, academic integrity is the heart of intellectual life—both in learning and in research. Plagiarism is absolutely intolerable, and graduate students are expected to be conversant with the fundamentals of academic integrity. When in doubt, ask!

However, due to the nature of material in graduate level courses, it is difficult to evaluate students solely on the basis of in-class examinations with a fixed time limit. Therefore, professors typically evaluate students (at least partially) in such courses by means of homework assignments, projects, and take-home examinations.

Graduate students will naturally discuss among themselves possible ways to solve homework problems. This is *NOT* plagiarism, but rather an important part of the graduate student experience. However, it should be understood that within this learning environment, a certain *honour code* exists. Namely, that each student do his or her own write-up in a such a way that it represents his or her own work.