

**STAT 3400**  
**INTRODUCTION TO PROBABILITY II**  
**WINTER 2014**

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**Office Hours:** Monday and Friday 10:30 am – noon, or by appointment

**Prerequisites:** STAT 2400 (with a grade of C or better), and a co-requisite of MATH 2720 (or 2721) or MATH 2730 (or 2731).

**Text:** Weiss, N.A. (2006), *A Course in Probability*, Pearson Ed. (Addison-Wesley).  
**note:** reserved copy of the text is available in the Science Library

**Lectures:** Monday, Wednesday and Friday 9:30 am -- 10:20 am in 111 Armes Lecture Building

- attendance is mandatory
- textbook will be followed in chronological order, with some topics abbreviated or omitted
- selected problems from the text will be solved in class, and some will be assigned for you to practice (no credit homework)

**Labs:** Monday 2:30 pm -- 3:45 pm in 111 Armes Lecture Building

- Lab demonstrator: Armin Hatefi, umhatefi@cc.umanitoba.ca
- first lab is on January 6, 2014
- attendance is mandatory
- selected problems from the textbook will be solved

**Tests:** There will be four 50-minute closed book tests that will be held either during the lab or lecture hours. They will take place every three weeks or so, starting on around January 29, 2014 (approximate date of the first test). Exact dates for each of the tests will be announced in advance in class. An approximate breakdown of the textbook material covered by each of the four tests is as follows: test 1-Chapter 8, test 2-Chapter 9, test 3-Chapter 10, and test 4-Chapter 11. The test problems will strongly be related to those that are solved in class during the lectures and labs, and also those that are on your homework.

**Note:** no makeup, early or delayed tests in this course

**Evaluation:** Final grade is based on:  
Term Work (50%): 3 best out of 4 tests  
Final Exam (50%): two-hour closed book exam based on the whole term

**Course outline:** Chapter 8-Continuous Random Variables and Their Distributions; Chapter 9-Jointly Continuous Random Variables; Chapter 10-Expected Value of Continuous Random Variables; Chapter 11-Generating Functions and Limit Theorems; other topics as time permits.

**Note:** the above is only an approximate outline. It is your responsibility to keep up with what is being done in class and with any changes announced in class.

**Voluntary Withdrawal:** The voluntary withdrawal deadline is March 19, 2014.

**Academic Dishonesty:** It is important that you understand what constitutes academic dishonesty and that you are familiar with the very serious consequences. Links to resources that describe academic dishonesty (including plagiarism, cheating, inappropriate collaboration and examination impersonation) can be found at:

<http://www.umanitoba.ca/faculties/science/undergrad/resources/webdisciplinedocuments.html>

or through the Faculty of Science home page at:

<http://www.umanitoba.ca/faculties/science>

Typical penalties imposed within the Faculty of Science for academic dishonesty are also described.

**Registration Advisory:** *Important Note from the Dean of Science:* It is your responsibility to ensure that you are entitled to be registered in this course. This means that you have:

- the appropriate prerequisites, as noted in the calendar description, or have permission from the instructor to waive these prerequisites;
- not previously taken, or are concurrently registered in, this course and another that has been identified as “not to be held with” in the course description. For example, STAT 1000 cannot be held for credit with STAT 2220.

The registration system may have allowed you to register in this course, but it is your responsibility to check. If you are not entitled to be in this course, you will be withdrawn, or the course may not be used in your degree program. There will be no fee adjustment. This is not appealable. Please be sure to read the course description for this and every course in which you are registered.

**Pandemic Advisory:** Should major disruptions to university activities occur as a result of a pandemic, the course content, evaluation, and other provisions of this document may be adjusted as the circumstances warrant.