

STAT 3400 (CRN: 11516)
INTRODUCTION TO PROBABILITY II
FALL 2017

Instructor: Dr. Yuliya V. Martsynyuk
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Office Hours: Monday, Wednesday and Friday 8:30 am – 9:30 am, or by appointment

Prerequisite: STAT 2400 (with a grade of C or better)

Prerequisite or Co-requisite: one of MATH 2150, MATH 2720, MATH 2721 (or the former MATH 2750), or the former MATH 2730, or MATH 2731 (with a grade of C or better)

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 527 Buller

- 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 as no credit homework

Labs: Monday 2:30 pm – 3:45 pm, in 527 Buller

- lab demonstrator: Weijia Zhang, zhangw10@myumanitoba.ca
- first lab is on September 11, 2017
- attendance is mandatory
- selected problems from the text will be solved

Mid-terms: There will be two 75-minute closed book mid-term tests that will be held during the lab hours of **October 2, 2017** and **November 6, 2017** (locations TBA). An approximate breakdown of the textbook material covered by each of these tests is as follows: mid-term 1--Chapters 8 and 9 and mid-term 2--Chapters 9 and 10. The test problems will be strongly related to those that are solved in class during the lectures and labs, and also those that are on your homework.

Note: no early and deferred mid-terms in this course

Evaluation: Final grade is based on:

Term Work (50%): mid-term 1 (25%) + mid-term 2 (25%)

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 November 17, 2017.

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, as well as typical penalties) can be found at:

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

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Use of Electronics in the Classroom: It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. A student may use technology in the classroom setting only for educational purposes approved by the instructor and/or the University of Manitoba Accessibility Services. Students should not engage in electronic messaging/posting activities (e-mail, texting, video or voice chat, social networking) or electronic gaming during scheduled class time. Cell phones should be turned off at the beginning of class. If a student is on call for emergencies, their cell phone should be on vibrate and the student should leave the classroom before using it.

Class Communication: The University requires all students to activate an official University email account. Please note that all communication between your instructor and you as a student must comply with the Electronic Communication with Students Policy. Please see

http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html

You are required to obtain and use your U of M email account for all communication between yourself and the university.

Student Accessibility Services: If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

<http://umanitoba.ca/student/saa/accessibility/>

ROASS Schedule A: Schedule A of the Responsibilities of Academic Staff with regards to Students (ROASS) policies of the University of Manitoba lists resources and policies for students. It is important that you familiarize yourself with these resources and policies. Schedule A is posted on the Department of Statistics webpage.