STAT 7250

Fall Term - 2018

Course Title: Nonparametric Inference

CRN: 16254

Instructor: Dr. Po Yang
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Lecture hours and location: Mondays, Wednesdays and Fridays: 1:30pm - 2:20pm, 418 Machray Hall.

Office hours: Mondays and Wednesdays: 10:00am-11:00am

Course web: All course materials are posted on the University of Manitoba Desire2Learn.

General description: This course provides an overview of modern nonparametric methods. The topics include: density estimation, nonparametric location tests, nonparametric dispersion tests, the bootstrap, and nonparametric regression, etc. The computer software R will be used to analyze data.

Prerequisites: Consent of instructor.

Recommended references:

1. *Nonparametric Statistical Methods* (3rd edition), M. Hollander, D. A. Wolfe, E. Chicken, John Wiley and Sons, New Jersey, 2014.
2. *An Introduction to the Bootstrap*, B. Efron and R. J. Tibshirani, Chapman and Hall/CRC, 1993.

Grading: Your grade will be based on three assignments and a final exam.

Three Assignments 20% each
Midterm 15%
Final Exam 25%

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

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

Copyrighted Material:

All course notes, assignments, tests, exams, practice exams, and solutions are the intellectual property of your instructor. Reproduction or distribution of these materials is strictly forbidden without my consent.

Recording of Class Lectures

I hold copyright over the course materials, presentations and lectures which form part of this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission from me.

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 (e.g. Facebook)) or electronic gaming during scheduled class time.

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. This document is available from the Department of Statistics weg page at:

http://umanitoba.ca/science/statistics/