STAT 4100: Mathematical Statistics I, Section 0002  
(22S:153)  
Fall 2015  
1:30-2:20pm MWF in W55 Chemistry Building (CB)

| Instructor: | Sanvesh Srivastava |
| Email:      | sanvesh-srivastava@uiowa.edu |
| Office:     | 219 SH (Schaeffer Hall) |
| Office hours: | Mondays 2:25-4:25pm & Wednesdays 2:25-3:25pm in 219 SH |
| Website:    | ICON https://icon.uiowa.edu/ |

**Departmental Information and Executive Officer**

**College:** College of Liberal Arts and Sciences  
**Department:** Statistics and Actuarial Science  
**Executive Officer:** Joseph Lang (joseph-lang@uiowa.edu)  
**Address:** 241 SH  
**Contact:** (319)-335-0712  
**Email:** statistics@uiowa.edu; actuarial-science@uiowa.edu  
**Website:** http://www.stat.uiowa.edu

**Textbook and course materials**

Introduction to Mathematical Statistics (7th ed.) Hogg, McKean and Craig, (Prentice Hall). We will cover chapters 1-3 and part of chapter 4. I will post announcements, homework problems, lecture notes, and other course information in ICON.

**Course Description and Objectives**

This is a course in mathematical statistics intended for upper-level undergraduate students in the mathematical sciences as well as for graduate students in all disciplines. The goal is to provide a solid foundation in the theory of random variables, probability distributions, and convergence in probability and distribution.

**Pre-requisites**

The course prerequisites are the mathematics courses MATH:2700 (22M:027) and MATH:2850 (22M:028), or equivalents: undergraduate calculus including linear algebra. Undergraduate students often complete STAT:3120 (22S:120) or STAT:3100 (22S:130) prior to taking STAT 4100 (22S:153).
Homework

Homework will be usually assigned each week on Wednesdays and will be due on the following Wednesday at the beginning of the class. Any exceptions will be announced in class or in ICON. Due to time constraints, the grader may grade only some of the assigned questions, but you are responsible for understanding all questions. Unless prior arrangements are made well in advance, for reasons judged to be acceptable by me, late homework will receive zero credit as solutions will be posted soon after the homework is due.

It is expected that students will read the book and work problems as required to master the material. Your work must be legible, include name, and be stapled to receive credit. All homeworks will contribute towards your final grade. You are expected to put in 6-8 hours of work outside of class. A few of you will do well with less time than this, and a few of you will need more.

Quizzes and Exams

Quizzes will be frequent and brief. They will emphasize examples and key concepts repeatedly mentioned in class as well as homework problems. All exams will be closed book. The final exam will be comprehensive and cumulative.

Attendance

Attending classes is encouraged but not required.

Office hours

Instructor office hours are every Mondays 2:25-4:25pm & Wednesdays 2:25:3:25pm in 219 SH. If you are unable to attend office hours during these times, then you should email the instructor for an appointment.

Grades

Your grade will consist of Homework (15%), Quizzes (10%), Midterm I (22.5%), Midterm II (22.5%) and a Final Exam (30%). At the end of the semester, Midterm I and II, HW, and Final grades may be normalized within each category in order to calculate the final course grade.

A plus-minus grading system will be used. Here is a tentative grading scale: A,A-: 88%–100%, B+,B,B-: 77%–88%, C+,C,C-: 61%–77%, D: 50%–61%, F:<50%. A+ will be given only in exceptional cases.

Grading Errors

Although every effort will be made to mark your work accurately, sometimes grading mistakes happen. If you believe that an error has been made on an in-class problem or exam, return the paper to the instructor immediately, stating your claim in writing.
Important Dates

Check the office of the registrar website for the academic calendar:
http://registrar.uiowa.edu/academic-calendar#!fall-2015

Some important tentative dates for STAT 4100 are as follows:

<table>
<thead>
<tr>
<th>Midterm I:</th>
<th>Mon, Sep 28</th>
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<tbody>
<tr>
<td>Midterm II:</td>
<td>Mon, Nov 02</td>
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<tr>
<td>Final Exam:</td>
<td>Mon, Dec 14 - Fri, Dec 18 (to be decided by the university)</td>
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College of Liberal Arts and Sciences: Policies and Procedures

http://clas.uiowa.edu/faculty/teaching-policies-resources

Administrative Home of the Course The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed in 120 SH or see the CLAS Student Academic Handbook:
www.clas.uiowa.edu/students/academic_handbook/index.shtml

Electronic Communication University policy specifies that students are responsible for all official correspondences sent to their standard University of Iowa email address (@uiowa.edu). Students should check this account frequently. (Operations Manual, III.15.2. Scroll down to k.11.)

Academic Fraud Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Student Academic Handbook.

Making a Suggestion or a Complaint Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

Accommodations for Disabilities A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. www.uiowa.edu/~sds/

Understanding Sexual Harassment Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment at www.uiowa.edu/~eod/policies/sexual-harassment-guide/index.html for assistance, definitions, and the full University policy.

Reacting Safely to Severe Weather In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. (Operations Manual, IV.16.14. Scroll down to e. h. and i.)