COURSE SYLLABUS

STAT 4100:0001
Mathematical Statistics I
Meetings 10:30 a.m. – 11:20 a.m.
Mondays, Wednesdays, Fridays
104 EPB Spring Semester 2018
O. Stramer

COURSE DESCRIPTION

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 some elementary statistical inferences.

PREREQUISITES

The course prerequisites are the mathematics courses 22M: 027 and 22M: 028, or equivalents: undergraduate calculus including linear algebra.

OFFICE HOURS

Scheduled office hours for the course are from 11:45 am to 12:45 pm on MWF. Appointments at other times may be made via email, osnat-stramer@uiowa.edu.

EARNING CREDIT

Your semester grade will consist of the following components:

Homework 10%
Quizzes 20%
Midterm Exam I 15% Monday February 26 in class.
Midterm Exam II 20% Monday April 9 in class.
Final Exam 35% TBD by the University.

Problem sets will generally be made available on ICON on Tuesday; answers will be due on Monday.

Exams: There will be two midterm exams and one cumulative final exam. The examination will be closed book and closed notes. Calculator may be used for exams, and any necessary statistical tables will be provided. One 8.5”x11” formula sheets (both sides) may be used for midterm I, two 8.5”x11” formula sheets (both sides) may be used for
midterm II, and three 8.5”x11” formula sheets (both sides) may be used for the final. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies.

**Quizzes:** There will be 5-7 closed-book 25-minutes quizzes at the end of class period. The quizzes will be closed book and closed notes, except that you may use a “crib sheet"-one page (8.5 x 11) of notes **written on one side only.** Calculator may be used and any necessary statistical tables will be provided. The dates of the quizzes will be announced only 2 days in advance (in class).

**Bonus points may be given at any time. The bonus points may be applied to any part of your grade.**

**COMMUNICATION**

In the event that I need to communicate with you by email, I will assume that you read your firstname-lastname@uiowa.edu email at least every 48 hours.

**READINGS**

The course will closely follow the first four chapters of the text *Introduction to Mathematical Statistics* by Robert V. Hogg, Joseph W. McKean and Allen T. Craig (Seventh Edition, Prentice Hall, 2). All students taking the course for credit are expected to purchase this text, which is available in the bookstore. The course topics are from Ch. 1 to 4.6 and other selected topics if time permits.

**COLLEGE OF LIBERAL ARTS AND SCIENCES POLICIES AND PROCEDURES**

This course is governed by the policies and procedures of the College of Liberal Arts. These policies address

- the administrative home of the course;
- electronic communications;
- electronic communications;
- academic fraud;
- students with disabilities;
- procedures for student complaints;
- sexual harassment policy;
- weather emergencies.

These policies can be found at http://www.clas.uiowa.edu/faculty/teaching/new_policytemplate.shtml.