The University of Iowa
College of Liberal Arts and Sciences
Department of Statistics and Actuarial Science

Probability & Statistics for Engineers (22S:039, STAT: 2020)
3:30P - 4:20P MWF
W290 CB
Spring 2011
Stramer

Instructor: Osnat Stramer, 370 SH, phone: 335-3182,
Email: stramer@stat.uiowa.edu.

Office Hours: Monday 1:30–3:00 p.m., Wednesday 2:00–3:00 p.m. or by appointment.

Dept. Info: Prof. Dale Zimmerman, Chairman.
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Teaching Assistants

Kyung Yong Kim ("Yong"), 267 Schaeffer Hall
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Hu Miao, 350 Schaeffer Hall
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Office hours: 8:30-9:25 a.m. on Thursdays

ICON: http://icon.uiowa.edu/ Log in using your Hawk ID and Hawk I password.

Text: Ledolter and Hogg, Applied Statistics for Engineers and Physical Scientists (3rd Edition)
available at University Book Store

Book web site for the data:
http://www.biz.uiowa.edu/faculty/jledolter/AppliedStatistics/
**Course Coverage:** Most of the material in Chapters 1–5, 8– We will not cover all parts of each chapter listed above. Focus your readings on the material that was covered in class. You are expected to attend all lectures in their entirety. Not all notes will be posted.

**Computer Package:** We will learn how to do many of the statistical analyses described in class using the statistical software package Minitab. Minitab is available in the campus computer labs. There is a free online version as well; go to http://virtualdesktop.uiowa.edu.

**Statistics Tutorial Lab:** There is a free statistics tutorial lab in room 202 Communications Center. During available times, a knowledgeable person will be present to assist students. Hours for the lab can be found at http://www.stat.uiowa.edu/courses/tutorial-lab.html A list of non-free tutors can be found at http://www.stat.uiowa.edu/courses/tutors.html

**Grading System**

**Homework (10%):** Homework will be due each Friday. A subset of the assigned problems will likely be graded. Late homework will not be accepted under any circumstances. The lowest two homework scores will be dropped. Homework must be stapled, be neatly written in pencil, and look professional (points will be deducted for failing to do so). Excessively sloppy homework will receive a score of 0. Print your name and section number (A2–A6) in the upper right corner of your homework before handing-in. You need to remember your section number!

**Projects (10%):** Students will work in groups of 2-3 to carry out 2-3 projects involving application of the statistical methods covered in the course.

**Exams (70%):** There will be three midterms.

1. Feb 18, in class (10%)
2. March 10, 2011 from 5:30-7:30pm in LR1 VAN (20%)
3. April 8, in class (10%)

and final exam (30%) on Monday, May 9 2011 at 2:15 pm.

The examinations 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 both sides for each midterm and two pages of notes written on both sides for the final.

Students are expected to be present for the exams at the scheduled time. It is your responsibility to make the appropriate arrangements beforehand.

**Discussion:** (10% totals): Your TA will evaluate you via attendance, unannounced quizzes, preparedness, participation, etc. in your discussion sections. Make sure you are clear about your TA’s policies and expectations regarding the discussion grade.

I reserve the right to give bonus points at any time. The bonus points may be applied to any part of your grade.
As an approximate guide, grades will be given as:

90-100: A  
80-90: B  
70-80: C  
60-70: D  
Below 60: F

Plus and minus grades will be given.

**Resources:** The Writing Center service offers twice a week tutoring, appointments, and online tutoring at 4 different locations on campus. Please see [www.uiowa.edu/~writingc](http://www.uiowa.edu/~writingc)

**Course Policies**
Course attendance: Students are responsible for all material covered in the lectures.

E-mail Account: Every student in the class is required to check his/her UIowa e-mail often (every other day.)

INFORMATION FOR STUDENTS WITH DISABILITIES: I would like to hear from anyone who has a disability which may require some modification of seating, testing, or other class requirements so that appropriate arrangements can be made. Please see me as soon as possible.

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;
* 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](http://www.clas.uiowa.edu/faculty/teaching/new_policytemplate.shtml).