

## STA 3032: Engineering Statistics (Spring 2009)

<http://www.stat.ufl.edu/~kyung/sta3032/sta3032.html>

<b>Instructor:</b> Minjung Kyung	<b>TA:</b> Steve Chung
<b>Office:</b> 226 Griffin-Floyd Hall	<b>Office:</b> 415 McCarty C Hall
<b>Email:</b> <a href="mailto:kyung@stat.ufl.edu">kyung@stat.ufl.edu</a>	<b>Email:</b> <a href="mailto:stevec@stat.ufl.edu">stevec@stat.ufl.edu</a>
<b>Office Hours:</b> M 4:00 pm - 5:00 pm	<b>Office Hours:</b> T (TBA)
<b>Office Hours:</b> W 4:00 pm - 5:00 pm	<b>Office Hours:</b> Th (TBA)

**Class:** M W F 8<sup>th</sup> FAB 0103

**Course objective:** A survey of the basic concepts in probability and statistics with engineering applications. Topics include probability, discrete and continuous random variables, estimation, hypothesis testing, quality control charts and linear and multiple regressions.

**This course satisfies general education credits in the mathematical sciences. Students learn how to summarize data and how to make appropriate decisions based on data.**

**Prerequisite:** MAC 2311

**Required Supplies:**

- Textbook: *Statistics for Engineers and Scientists* Second Edition by William Navidi with Solutions Manual.
- Calculator which have the ability to find the mean and the standard deviation.

**Other Recommended Supplies:** Any statistics computer package is fine, but I prefer R. It's free to download and good for simulation study. R can be downloaded from <http://cran.r-project.org/>.

**Grading Scale:** A:91% – 100%, B+:83% – 90%, B:71% – 82%, C+:65% – 70%, C:55% – 64%, D:50% – 54%, E:49% and lower.

*The grading scale is not fixed. If the overall class performance warrants a curve I will give one, but A CURVE WILL NOT BE GUARANTEED. It is the policy of the Department of Statistics not to give grades of D+.*

**Attendance:** Attendance will be taken on ten random days in the semester. Each day of attendance will earn 0.5 bonus points to be added into your total points at the end of the semester.

**Homework:** Homework will be posted on the course web site . Homework will not be collected, but it is a good practice to prepare for quizzes and exams. If you don't understand a homework problems and have any questions about the material, please come to see me. Answers to even homework problems will be posted on the course web site. Answers to the odd questions are in the student's solution manual.

**Quizzes:** Quizzes are going to be in class. The dates listed below are tentative. It will be announced in class at least one week prior to the quiz when each quiz will be taken. There will be 4 quizzes on the following (tentative) dates:

- Quiz 1: Friday, Jan. 30<sup>th</sup>, 2009
- Quiz 2: Friday, Feb. 13<sup>th</sup>, 2009
- Quiz 3: Wednesday, Mar. 18<sup>th</sup>, 2009
- Quiz 4: Monday, April. 13<sup>th</sup>, 2009

The material to be covered in each quiz will be announced in class. Each quiz will worth 15 points.

**Project:** There will be one project worth 20 points consisting of data analysis. The specific instructions will be provided on March 25<sup>th</sup> and the due date will be April 22<sup>nd</sup>. The projects will not be accepted after the due date.

**Exams:** There will be total of 3 exams. You will need to bring your calculator, pencil and UF photo ID. If a student is unable to take the exam at the scheduled time, he/she must get in touch with me **one week prior to the exam for any arrangements to be made for a makeup**. Each case will be reviewed individually. Valid and detailed documentation is prerequisite under such extenuating circumstances. In case of illness, the instructor must be notified on the day of the exam by 5 pm and must receive a medical excuse.

	Dates	Possible Points
Exam 1	Friday, Feb. 27 <sup>th</sup> , 2009	35
Exam 2	Friday, Apr. 3 <sup>rd</sup> , 2009	35
Final	Wednesday, Apr. 22 <sup>nd</sup> , 2009	50
Quizzes		60
Project		20
Total		200

## Course Policies

- **Academic Dishonesty:** I adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office of Student Services for detailed information about current policies.
- **Instructor's Honor Code:** We the members of the University of Florida community pledge to hold ourselves and our peers to the highest standards of honesty and integrity.
- **Incomplete:** Incompletes are only assigned when extraordinary circumstances, arising after the date for dropping off the course, prevent the student from completing the course requirements. The student must be currently passing the course and discuss the circumstances with the instructor before the final exam takes place. Having a failing grade in the course is not a valid reason for requesting an incomplete.
- **Getting Help:** Students should be able to get their statistical question answered by asking the instructor during office hours, before or after class, or as a last resort, by getting (and paying) a private tutor. A listing of private tutors from the Statistics Department can be obtained from the secretary in Griffin Floyd 103.
- **Accommodations for students with disabilities:** Students requesting classroom accommodation must first register with the Dean of Students office. The Dean of Students will provide documentation to the students who must then provide this documentation to the Instructor when requesting information.
- **Grading:** Grading will be changed only when an error has been made; negotiation is not appropriate.