

# STA 3032 Engineering Statistics – Summer B 2013

Section 4718: M-F 2<sup>nd</sup> period 9:30 - 10:45 in TUR L005

*Prerequisite:* MAC2311

*Instructor:*

Soheil Sadeghi ([sadeghi@stat.ufl.edu](mailto:sadeghi@stat.ufl.edu))

*Office:* Griffin Floyd 117D

*Course Web Address:* [e-learning](#)

*Office Hours:* TR 11:00 - 12:00 AM

*Teaching Assistants:*

1) Subhadip Pal ([subhadippal@stat.ufl.edu](mailto:subhadippal@stat.ufl.edu))

*Office:* Griffin Floyd 218

*Office Hours:* TBA

2) Ke Li ([palaga@stat.ufl.edu](mailto:palaga@stat.ufl.edu))

*Office:* McCarty C 419

*Office Hours:* TBA

*Course Description:*

A survey of the basic concepts in probability and statistics with engineering applications; Topics include probability, discrete and continuous random variables, estimation, hypothesis testing and linear and multiple regression. [General Education: Mathematics (M), Math Requirement (MR)]

*Course Materials Required:*

- 1) *Statistics for Engineers and Scientists* by Navidi, 3rd Edition, ISBN: 9780073376332
- 2) Student's Solutions Manual (optional): [Electronic copy](#)
- 3) Calculator capable of calculating means and standard deviations

*Statistical software:*

Minitab; Minitab can be found on the CIRCA lab computers, may be purchased at a campus bookstore. You may download Minitab free for 30 days at [www.minitab.com](http://www.minitab.com).

*Homework and Quizzes:*

Suggested homework problems will appear on the course website. These will NOT be collected and graded. However, there will be a 5 minute quiz every Tuesday (with the exception of the first week – first quiz will be on Friday, July 5th). These quizzes will give you 10% of your grade.

*Exams:*

There will be three (3) exams, given on the dates listed below. Each exam will give you 30% of your grade.

Exam 1: Friday, July 12 <sup>th</sup>	-- Ch 1, Ch 2, Ch 4	-- Time/Location: TBA
Exam 2: Friday, July 26 <sup>th</sup>	-- Ch 5, Ch 6	-- Time/Location: TBA
Exam 3: Friday, August 9 <sup>th</sup>	-- Ch 7, Ch 8, Ch 9	-- Time/Location: TBA

I have the right to test you anything I teach in class and you should be familiar with ALL topics. Anyone of them has the same chance of being chosen to be included in the exam.

### Make-up Exams:

If a student is unable to take an exam at the scheduled time, they must notify the instructor as early as possible. If an emergency situation precludes an advance arrangement, you should let the instructor know within 24 hours of the missed exam. Each case will be reviewed individually. You will be required to provide official documentation to be eligible for make-up examination.

### Grading Scale:

The grading scale will be as follows:

A:	90-100%,	A-:	87- <90%,		
B+:	84- <87%,	B:	80- <84%,	B-:	77- <80%,
C+:	74- <77%,	C:	70- <74%,	C-:	64- <70%,
D:	60- <64%,				
E:	<60%				

No grades of D+ or D- will be given.

### Emails:

Emails would be answered within two working days or sooner. Questions regarding the material covered in class, and homework problems should be asked in person. Statistical questions often require formulas or pictures, which can make it very hard to communicate by emails.

### Attendance:

Attendance is not mandatory; however, this course is NOT available online. If you miss classes for any reason, it is your responsibility to get any notes and information you might have missed from another student. Additionally, you should turn your cellular phones off and refrain from eating, drinking, reading newspapers, doing homework for other classes, and excessive talking. Laptops should NOT be brought to class.

**Academic Dishonesty:** I adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office of Students Services for detailed information about the 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.

**Grading:** Grades will be changed only when an error has been made by the instructor.

**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 may ask questions during the lectures (preferred) or the office hours. The TAs will answer questions during office hours. A list of private tutors (if needed) may be obtained from the Statistics Department Secretary in Griffin Floyd 103.

**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.

Privacy Policies: Student records are confidential. Only information designated "UF directory information" may be released without your written consent. UF views each student as the primary contact for all communication. If your parents contact me about your grade, attendance or other information that is not "UF directory information". I will ask them to contact you.

Tentative schedule:

Subjects	Sections
Ch. 1 -- Sampling and Descriptive Statistics	All Sections
Ch. 2 -- Probability	All Sections
Ch. 4 -- Commonly Used Distributions	4.12 omitted
Exam 1	
Ch. 5 -- Confidence Intervals	Sections 5.1 to 5.7
Ch. 6 -- Hypothesis Testing	6.12-6.15 Omitted
Exam 2	
Ch. 7 -- Regression	All Sections (7.4 may be omitted)
Ch. 8 -- Multiple Regression	All Sections
Ch. 9 -- Factorial Experiments	9.1-9.4, time permitting
Exam 3	

Note:

The instructor reserves the right to update any parts of this syllabus as necessary. Students will be notified of any changes.