

Statistics 5126  
Introduction to Applied Statistics  
Fall 2012

**Course Information**

Class Meeting Time/Place: Tuesday/Thursday 9:30-10:45 in OSB110  
Class URL: [On Blackboard at http://campus.fsu.edu](http://campus.fsu.edu)

**Instructor: Dr. Adrian Barbu**

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Office: OSB 106C  
Office Hours: M/W 3:30-4:30pm or by appointment

**Teaching Assistant: Ruoying Wang**

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Phone (423) 930-0218  
Office: 308 BIO UNIT 1  
Office Hours: T/R 3:00-4:00pm

**Textbook:** Probability and Statistics With R, Ugarte M, Militino A, Arnholt A.

**Course Objectives:** This course will provide an introduction to the concepts involved in statistical data analysis. Upon successful completion, a student will be able to confidently carry out statistical analyses using the R system.

**Prerequisite:** One of STA 2122, 2171, 3032, 4322, 5126, 5354 or QMB 3200

**Topics**

The material that will be covered includes

- The basics of R
- Probability
- Sampling Distributions and data descriptions
- Hypothesis Tests
- Confidence Intervals
- Regression
- Non-parametrics (time permitting)

**Grading:** Homework: 20%, Quizzes: 20%, Midterm Projects: 30%, Final Project: 30%.  
The following scheme will be used to convert the percentage points to letter grades.

[90, 93)	A-	[93, 100]	A		
[80, 83)	B-	[83, 87)	B	[87, 90)	B+
[70, 73)	C-	[73, 77)	C	[77, 80)	C+
[60, 63)	D-	[63, 67)	D	[67, 70)	D+
[0, 60) F					

## Software

We will use R in the course, which is a freeware program. Instructions on obtaining and using R will be provided in class.

## Course Policy

- **Classroom policies:** The classroom environment is an important factor for effective learning. In order to not distract other students' attention please follow these classroom policies. The first one of these is the university policy.
  - Remember that no food or drinks are allowed in the classroom.
  - Turn off all audible alarms (cell phones, pagers, calculators, watches etc.)
  - Do not use cell phones in the class.
  - Come to the class on time. Opening and closing the classroom door in the middle of a class cause distraction to the students and the teacher.
  - Do not talk to other students without permission while the professor is teaching. More than one conversation creates noise and makes it difficult for the students to pay attention to the lecture.
- **Attendance:** You are required to attend all classes. The class activities will help you assimilate the lessons more easily, giving you an opportunity for active learning. Do not let this opportunity slip away. Any foreseen absence must be cleared with the instructor. If the absence is due to emergencies, it is the student's responsibility to notify the instructor at the earliest opportunity of the emergency.
- **Quizzes:** There will be weekly Thursday open book quizzes to check on the material already covered. The best 10 quizzes will form the quiz grade.
- **Homework:** The homework problems will typically be announced on Thursday in class (and on the web site) and due by the following Tuesday. No late homework is allowed. The homework must be neatly written, preferably typed. Computer output should be kept to a minimum. The best 10 homeworks will form the homework grade.
- **Midterm and Final Projects:** There will be two midterm projects and one final project. All are take home projects. Similar to the homework, the projects should be typed and computer output should be kept to a minimum.
- **Collecting returned homework/projects:** It is the student's responsibility to retrieve his or her homework and projects whenever they are returned and to check grades on the Blackboard class page. If you notice any mistake in recording grades on the Blackboard page, please inform the instructor or the TA about it as soon as possible.
- **Homework/project re-grade:** You have one week to request a re-grade of a homework or project from the date on which the graded homework/project is available to the students of the class. Submit a written request detailing the nature of the grading error to the TA or instructor along with the relevant homework or project.
- **Contacting the instructor or TA outside the class:** You are strongly encouraged to come to the instructor or TA during their office hours. If your schedule conflicts with the office hours, you can make an appointment. You may ask the instructor brief

questions by e-mail, but you may be asked to come to office hours if the instructor thinks that the questions are better answered in person.

- When you send e-mails remember the following:
  - Always e-mail from your FSU accounts. The e-mails from non-FSU accounts may not reach me due to filters.
  - Always write your full name at the end of each e-mail message you send.
  - Always write STA 4203/5207 at the beginning of the subject line.
- **Academic honor policy:** The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "... be honest and truthful and ... [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://dof.fsu.edu/honorpolicy.htm>).
- **Students with disabilities:** Students with disabilities in need of academic accommodation should:
  1. Register with and provide documentation to the Student Disability Resource Center;
  2. Bring a letter to the instructor indicating the type of accommodation needed. This should be done during the first week of class.For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center  
97 Woodward Avenue, South  
108 Student Services Building  
Florida State University  
Tallahassee, FL 32306-4167  
(850) 644-9566(voice)  
(850) 644-8504 (TDD)  
[sdrc@admin.fsu.edu](mailto:sdrc@admin.fsu.edu)  
<http://www.disabilitycenter.fsu.edu/>