

**STA 4322 - Intro. Statistics Theory (Sec 5283)  
Summer B 2005**

**Instructor:** [Sourish Saha](#)  
218 Griffin-Floyd Hall  
Email: [ssaha@stat.ufl.edu](mailto:ssaha@stat.ufl.edu)

**Class Time:** MTWRF 5

**Location:** FLI 105

**Office Hours:** Will be announced in the class.

**Course Outline:** Credits: 3; Prereq: STA 4321 or equivalent  
This is a direct continuation of STA 4321. It provides basic background material for distribution theory, estimation, hypothesis testing, linear regression analysis, and analysis of variance. A good knowledge of calculus will be very helpful.

**Textbooks:**

1. *Mathematical Statistics and Data Analysis*, 2<sup>nd</sup> edition, By: John A. Rice, Duxbury, 1995.
2. *Mathematical Statistics with Applications*, 6<sup>th</sup> edition, By: Wackerly, Mendenhall, & Scheaffer, Duxbury, 2002.

**Topics:**

Sampling Distributions and the Central Limit Theorem  
Point and Interval Estimation  
Properties of Point Estimators and Methods of Estimation  
Hypothesis Testing  
Linear Models and Estimation by Least Squares

**Grading:** Exams and quizzes will be given in the class during the term. Course averages of at least 90%, 80%, and 70% will guarantee letter grades of A, B, and C, respectively. The dates for the exams & quizzes will be announced in the class.

**Homework:** A number of homework exercises will be assigned. Some of these exercises may also be worked out in class for illustrative purposes, and the students are expected to participate in the discussions. Although the homework exercises will not be graded, the students are urged to do all the assigned exercises.

**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.