

Data Analysis 1

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CLASS: Tue, Thur 3:30 - 4:50 pm, Room B104
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OFFICE HOUR: Tue, Thur 2-3 pm, or by appointment

Recommended Text: John A. Rice, *Mathematical Statistics and Data Analysis*, 3rd edition, Duxbury Series

Course Description: Basic principles in statistical inference (parameter estimation and hypothesis testing). Survey of elementary statistical methods for comparing two samples. Procedures to verify underlying assumptions. Extensions to more complex situations (analysis of variance, analysis of categorical data).

Tests:

Exam I: Thursday, March 28, in class
Exam II: Thursday, May 2, in class
Final: Tuesday, June 11, 9:00 - 11:30 am, in C103

Grading of Tests and Homework

Grading will be based on the following:
Homework (20%), Midterms ($2 \times 20\%$), Final (40%)

Trend in your progress will also be taken into account.

Academic Integrity

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>

School Policy on Attendance

1. If a student has over 20% unexcused absences, the student's final course grade will be an F.
2. Students should report the reason of absence to the professor in advance, or immediately after the absence.
3. When a student excuses his/her absence, the student must provide documentation of the reason for the absence to the professor.
4. The professor of the course reserves the right to excuse absences.

5. The professor may excuse the absence if the submitted documentation fulfills the following conditions: extreme emergencies, severe medical reasons with doctor's note, very important events

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.

Course Evaluations

Stony Brook University values student feedback in maintaining the high quality education it provides and is committed to the course evaluation process, which includes a mid-semester assessment as well as an end-of-the-semester assessment, giving students a chance to provide information and feedback to an instructor which allows for development and improvement of courses. Please click the the following link to access the course evaluation system: <http://stonybrook.campuslabs.com/courseeval/>

Tentative Course Schedule

Week	Dates	Topic	Homework
1	2/27, 2/29	Limit Theorem	#1, due 3/7
2	3/5 3/7	Distributions Derived from the Normal Distribution	#2, due 3/14
3	3/12 3/14	Survey Sampling	#3, due 3/21
4	3/19 3/21	Estimation of Parameters and Fitting of Probability Distributions	
5	3/26 3/26	Review	#4, due 4/4
6	3/28 4/2	Exam I Testing Hypothesis and Assessing Goodness of Fit	
7	4/4 4/9		#5, due 4/11
8	4/11 4/16	Summarizing Data	#6, due 4/18
9	4/18 4/23	Comparing Two Samples	
10	4/25 4/30	Review Exam II	
11	5/2 5/7	The Analysis of Variance	
12	5/9 5/14	No class	#7, due 5/16
13	5/16 5/21	The Analysis of Categorical Data	
14	5/23 5/28	Linear Regression	#9, due 5/23
15	5/30 6/4	Review	#10, due 6/4