

# ST 422, Spring 2002

## Introduction to Mathematical Statistics-II

Sec. 001: 01:30 - 02:20, MWF, DAN 216  
(<http://www.stat.ncsu.edu/~sghosh2/TEACHING/st422/>)

	Instructor	HW TA
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Office Hours:	Wednesday, 2:30-4:30 (or by appointment)	MW 10:15-11:15 (or by appointment).

### Textbook:

*Mathematical Statistics with Applications*, 5<sup>th</sup> edition, by **Wackerly, Mendenhall & Schaeffer**, 1996, Duxbury Press. ISBN 0-534-20916-5 . (Available in NCSU Central Bookstore)

### Course prerequisites:

MA 421 (Chap. 1 through 5 of the above textbook)

### Suggested reading:

*Introduction to Mathematical Statistics*, by Hogg & Craig

*Introduction to the Theory of Statistics*, by Mood, Graybill & Boes.

### HomeWork:

HWs will usually be assigned approximately weekly. You will get a week time to turn in the HWs. As a rule, usually late HWs are not accepted. Assigned HWs and submission deadlines will be posted on the web. You may expect at least a total of 10 HWs.

### Exams:

All exams will be held in usual classroom (unless otherwise noted). All exams are “closed book, closed notes”, and calculators are strongly encouraged. You may use “cheat sheets” (see the web for more details).

Exam# 1: February 08, 2002 (1:30-2:20),

Exam# 2: March 01, 2002 (1:30-2:20),

Exam# 3: April 05, 2002 (1:30-2:20),

Final exam: May 10, 2002 (1:00-4:00).

Exams # 1,2, & 3 are not cumulative and are based on the materials covered in the class and HWs, however the *final exam will be cumulative*. Sample exams will be posted on the web. Grades will NOT be posted on the web. *Old exams are also available on the course webpage.*

### Grading policy:

The course grade will be based on HWs, Exams and a cumulative final exam. The relative weight given to each of these components is

HWs	Exam# 1	Exam# 2	Exam# 3	Final exam
15%	20%	20%	20%	25%

The final grade will be expressed as a percent between 0 and 100. Letter grade cut-offs will then be assigned. The following letter-grades are guaranteed:

96-100, 91-95, 90    89, 81-88, 80    79, 71-78, 70    69, 61-68, 60    0-59

A+, A, A-    B+, B, B-    C+, C, C-    D+, D, D-    F

Questions concerning the grading of homework and exams must be raised by the class period following their return. These questions may be addressed to me (exams, homework), or the TA (homework only).

### **Missed work policy:**

Up to three **late** homework assignments (**due in class the following lecture period, or they will not be accepted at all**) will be accepted without penalty. All other late assignments will receive 75% of their potential score.

Make-up exams will NOT be given. If appropriate documentation is given for a legitimate absence, your final exam will count that much more. For example, if you miss Exam# 1 only, then your final will count 45% of your grade, instead of usual 25%. **At most two exams may be missed** in this fashion. If no in-class exams are taken/turned in, then the final exam will be 65% of your grade and remaining 20% will be lost.

### **Objectives:**

Students will:

1. Understand the theoretical framework of probability models and populations and their relationship to empirical data.
2. Be able to estimate population parameters, to estimate the variability of the associated estimators, and to express the variability in a confidence statement.
3. Be able to fit curves and surfaces to empirical data and to understand the inferences obtained from the fitted models.

### **Academic Integrity:**

While submitting hard copies of HWs, Exams and the final exam, students should sign the **Honor pledge**: *I have neither given nor received unauthorized aid on this test or assignment.* For details on student conduct, check out the web at

<http://www.fis.ncsu.edu/ncsullegal/codeof.htm>

### **Students with Disabilities:**

If you have a disability that may affect your participation in this class, please notify the instructor so that any necessary adjustments can be made. You may also contact the NC State Disability Services for Students (DSS) Center regarding campus at Suite 1900, Student Health Services or on the web at

[http://www2.ncsu.edu/ncsu/stud\\_affairs/counseling\\_center/dss/](http://www2.ncsu.edu/ncsu/stud_affairs/counseling_center/dss/)

### **Auditing:**

Auditors receive a notation on their transcript regarding whether their audit is “recognized” or “not recognized”. Thus, “audit” is an officially registered status. To be recognized as an auditor in ST 422, you must complete all the homeworks. Auditors are expected to attend class regularly. Students who wish to “sit in” on the course must register for an audit.