STT 862: Theory of Probability and Statistics II  
Michigan State University, Spring 2014

Instructor and Teaching Assistant

- **Instructor:** Ashoke Kumar Sinha  
  **Office:** C443 Wells Hall, **Phone:** (517)-432-2354, **Email:** aksinha@stt.msu.edu  
  **Office Hour:** Tuesdays and Thursdays 2:00–4:00 p.m. or by appointment.

Lectures schedule:  Mondays, Wednesdays and Fridays 9:10 – 10:00 a.m. in A328 Wells Hall.

Course Web Page:  http://loncapa.msu.edu/ (for registered students only)


Course outline:  STT 862 is a graduate level course on statistical inference. The main objective of this course is to introduce important inference methods and their properties, procedures to evaluate these inferential methods under different conditions. Specific topics to be considered are sufficiency, estimation, confidence intervals, testing of hypotheses, analysis of variance and linear models. We shall cover from the textbook chapters 5.3, 6-9 and (if time permits) selected topics from chapter 10 & 11.

Prerequisite:  STT 861.

Attendance:  You are expected to attend all meetings of the class. If you miss a class for whatever reason, you are responsible for all covering materials, assignments and deadlines.

Grading:  Points are earned through:

- Homework: 20%
- Exam 1: 20%
- Exam 2: 20%
- Final exam: 40%

Your grades will be determined by the following grading scale:

- 4.0 : 90% ≤ Score ≤ 100%
- 3.5 : 80% ≤ Score < 90%
- 3.0 : 70% ≤ Score < 80%
- 2.5 : 65% ≤ Score < 70%
- 2.0 : 60% ≤ Score < 65%
- 1.5 : 55% ≤ Score < 60%
- 1.0 : 50% ≤ Score < 55%
- 0 : 0% ≤ Score < 50%

Homework:  There will be several homework problems to turn in. The homework will be collected at the start of the lecture on the submission deadline date (to be announced when the homework are assigned). Late homework will not be graded and there is no make-up for homework.

Exams:  There will be two in-class exams and the final exam.  
If you cannot take an exam, contact the instructor as soon as possible to make other arrangements (to be considered only in case of verifiable excuses). Make-ups cannot be given after the exams have been returned.
### Examination Schedule

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>Friday, February 21</td>
<td>9:10-10:00 a.m.</td>
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<tr>
<td>Exam 2</td>
<td>Friday, April 4</td>
<td>9:10-10:00 a.m.</td>
</tr>
<tr>
<td>Final</td>
<td>Thursday, May 1</td>
<td>7:45-9:45 a.m.</td>
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All the exams will take place in the lecture room (A328 Wells Hall).

### Academic Honesty:

The Department of Statistics and Probability adheres to the policies of academic honesty as specified in the General Student Regulations 1.0, Protection of Scholarships and Grades, and in the All-University of Integrity of Scholarships and Grades which are included in Spartan Life: Student Handbook and Resource Guide. Plagiarism or any other sort of fraudulent behavior in exam and/or homework assignment will result in an automatic zero in that exam and/or homework assignment.

### ADA:

To arrange for accommodation, a student with special need should contact the Resource Center for People with Disabilities [Phone: 353-9642, Web Site: http://www.rcpd.msu.edu].

### Disclaimer:

The instructor reserves the right to make any changes he considers academically advisable. Changes will be announced in class and on the course web page. It is students' responsibility to keep up with any changed policies and assignments.

### Important Dates

- **January 6**: Classes Begin; late enrollment fee begins
- **January 10**: Close of add period
- **January 20**: Martin Luther King Day (No classes)
- **January 31**: Last Day for 100% Refund
- **February 26**: Middle of Semester; last day to drop with no grade
- **March 3-7**: Spring Break
- **April 25**: Last Day of Classes
- **May 1**: Final exam (7.45-9.45 a.m.)