Math 40012/50012
Introduction to Statistical Concepts
Spring 2015

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Office Hours: MW 2:10 – 4:10 pm, F 9:30–10:30 am, or by appointment

Lecture: MWF 11:00 – 11:50 am, Mathematical Sciences Building 228

Prerequisites
MATH 40011/50011 Introduction to Probability Theory and Applications. Students in the course who do not have the proper prerequisites risk being deregistered from the class.

Recommended Books

Learning Outcome
The goal of this course is to provide students the necessary skills and knowledge to analyze statistical data. Students will learn point estimation (maximum likelihood estimation and Bayesian estimation), interval estimation (confidence intervals for means, confidence interval for proportions), hypothesis testing (tests for means, tests for proportions), simple linear regression and some other related topics.

Course Information and Tentative Policies

Exams: There will be two midterm exams and one comprehensive final exam.

Homework Assignments will be assigned, collected, and graded during the semester.

- Assignments will be due at the beginning of class on the specified date.
- Late submissions will receive no credit unless a prior permission is granted.
- Homework assignments and their solutions will be posted on Flashline.
- The lowest homework score will be dropped at the end of the semester.
- Your first point of contact for questions about the grading of the homework is the TA, Lingjun Li.
Grading: Grades will be determined as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>30 %</td>
<td></td>
</tr>
<tr>
<td>First Midterm</td>
<td>20 %</td>
<td>Friday, Feb 13th, 11:00-11:50 am</td>
</tr>
<tr>
<td>Second Midterm</td>
<td>20 %</td>
<td>Friday, Mar 20th, 11:00-11:50 am</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30 %</td>
<td>Tuesday, May 5th, 10:15-12:30 pm</td>
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</tbody>
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\[
A (\geq 90\%) \quad B^+ \to A^- (80\% \to 89\%) \quad B (70\% \to 79\%) \quad C^+ \to B^- (60\% \to 69\%) \quad C (\leq 59\%)
\]

Miscellaneous

- **Academic Dishonesty.** University policy 3-01.8 deals with the problem of academic dishonesty, cheating, and plagiarism. None of these will be tolerated in this class. The sanctions provided in this policy will be used to deal with any violations. If you have any questions, please read the policy at [http://www2.kent.edu/policyreg/policydetails.cfm?customel-datapageid-1976529=2037779](http://www2.kent.edu/policyreg/policydetails.cfm?customel-datapageid-1976529=2037779) and/or ask.

- **Students with disability.** University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672-3391 or visit [www.kent.edu/sas](http://www.kent.edu/sas) for more information on registration procedures).

- **Registration Requirement.** The official registration deadline for this course is **January 25, 2015**. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFast) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

- **Withdrawal Deadline.** The last day to drop is **January 25, 2015**. The last day to withdraw this course is **March 22, 2015**. Other important Registrar dates can be found at [http://www.kent.edu/registrar/calendars/index.cfm](http://www.kent.edu/registrar/calendars/index.cfm).

This syllabus is subject to change.