STT 442: Prob & Stat II Statistics
Spring 2014

Time/Place: MWF 10:20am - 11:10am A328 WH
Instructor: Liang Zhang, C409 Wells Hall, (517)353-3899
Email: lzhang81@stt.msu.edu
Website: Please go to https://www.stt.msu.edu/Academics/ClassPages/ and check under STT 442 Section 1 for all course information.
Office Hours: MWF 1:00pm-2:30pm & by appointment
Textbook: Mathematical Statistics and Data Analysis, 3rd edition, by John Rice

Prerequisites:
(MTH 309 or MTH 314 or MTH 415) and STT 441, or equivalent courses.

Help Room:
You can get help with course material by going to Statistics Help Room C 100 Wells Hall. The help room hours can be found at the website:
http://www.stt.msu.edu/courseinfo/helproom.asp

Grading:
Final grades will be based on two midterms scoring 30%, final exam 25%, best five of six quizzes 25%, and best five of six homework assignments 20%.

Midterms:
There will be two in-class midterm exams on Friday February 14 and Friday March 28.

Final Exam:
The final exam will be on Wednesday, April 30, from 10:00am—12:00pm. The final exam is comprehensive.

Quizzes:
There will be six 15-minute in-class quizzes during the semester. The lowest score will be dropped. The quizzes will be given on the following Fridays:
January 17, January 31, February 28, March 21, April 11, April 25

Homework:
Homework will be assigned after each lecture and will be collected each Wednesday. Throughout the semester six collections of the homework assignments will be graded. The homework to be graded will be announced later.

Grading Scale:

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<tr>
<th>Percentage</th>
<th>90-100</th>
<th>85-89</th>
<th>80-84</th>
<th>75-79</th>
<th>70-74</th>
<th>60-69</th>
<th>50-59</th>
<th>50</th>
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<tbody>
<tr>
<td>Grade</td>
<td>4.0</td>
<td>3.5</td>
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<td>2.5</td>
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<td>1.5</td>
<td>1</td>
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Course Description:
This course teaches students basic statistics principles and techniques. We will cover topics including point estimations, interval estimations, hypothesis testing, likelihood methods, nonparametric methods, simple and multiple regression analysis, time series (ARMA model, data analysis, forecasting). These correspond to the textbook Chapter 5–9, 11–14, and lecture notes on time series. We will use the software R to perform various tests, regression analysis and time series analysis. R is free and can be downloaded at http://www.r-project.org.

Important Dates:
- January 6    First day of classes
- January 20   Martin Luther King Day – No class
- January 31   End of tuition refund
- February 26  Middle of semester
- March 3–7    Spring break
- April 25     Last day of classes

Policies:
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 scholarship and Grades which are included in Spartan Life: Student Handbook and Resource Guide. Students who plagiarize will receive a grade 0.0 on the homework, exam or quiz.

ADA: To arrange for accommodation a student should contact the Resource Center for People with Disabilities at http://www.rcpd.msu.edu/ or (517)353-9642

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 site. It is students’ responsibility to keep up with any changed policies and assignments.