STT 351-201: Probability & Statistics for Engineers  
Summer-2015

Day and Time : MWF 10:20-12.10 am
Venue : 1255 Anthony Hall
Instructor : Vellaisamy Palaniappan
Office : C 434 Wells Hall, East Lansing
Phone Number : 353-7173
E-mail : vellaisa@stt.msu.edu
Website : www.stt.msu.edu/Academics/ClassPages (then click on STT-351)

Office hours : M and W : 2.30-4.30 pm, Thursday 3.00-.00 pm and by appointment.
Course Description: Statistics is a discipline that supports the research and development; its methods help scientists and engineers answer questions in the face of variability and uncertainty. In STT 351, the students are exposed to basic probabilistic models and statistical methods that are used in engineering disciplines, applied research and industry. Continuous themes are the importance of quality data, the careful use of terms, and the clear presentation of statistical information and analysis.
Coverage: The text book will be followed fairly closely. Selected parts of Chapters 1-9 and Chapter 12.
Prerequisite: (MTH 234)
Attendance: You are expected to attend all the meetings of the class. If you miss a class for whatever reason, you are responsible for all the materials, assignments and the deadlines missed. While office hours provide an opportunity for further clarification of materials covered in class, office hours will not substitute for classes.
Exams: There will be two Quizzes (50 minutes), two tests (one hour each) and a final exam. The final is a 2-hour exam and will be a comprehensive one.

Quiz-1 (50 points) : Wednesday, July 15.
Test 1 (100 pts) : Friday, July 24.
Quiz-2 (50 points) : Monday, August 3.
Test 2 (100 pts) : Friday, August 14.
Final Exam (200 pts) : Wednesday, August 19

Note: All exams are “closed books” and “closed notes”. Formula sheets will be permitted. No make-ups are given without a verifiable medical excuse.
**Homework assignments:** Homework exercises from the text book will be assigned regularly in class. They will not be collected and graded, but we recommend you to work out the problems. The problems for the quizzes and the tests will be mostly based on them.

**Grading:** The course grade will be based on the total number of points accumulated in two tests (200 pts.), two quizzes (100 pts.), and the final exam (200 pts.). TOTAL: 500 pts.

**A Tentative Grading scale:**

<table>
<thead>
<tr>
<th>Points earned</th>
<th>Grade</th>
<th>Points earned</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>450-500</td>
<td>4.0</td>
<td>350-374</td>
<td>2.0</td>
</tr>
<tr>
<td>425-449</td>
<td>3.5</td>
<td>325-349</td>
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<td>400-424</td>
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<td>250-324</td>
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</tr>
<tr>
<td>375-399</td>
<td>2.5</td>
<td>0-249</td>
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</tbody>
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**Important dates:**

- July 6 : First day of classes
- July, 8 : Open adds end
- July 16 : Last day to drop with 100% refund
- July 28 : Last day to drop with no grade reported
- August 20 : Last day of classes

**Tips:** This course is demanding and requires a great deal of work. Students are responsible for all material covered in class. Students are expected to attend each class period and to bring text and a calculator. Read the textbook as assigned. Study the examples solved in class and in the textbook. Then do the homework problems. Try to study every day even if it has to be a few minutes only. Do not fall behind!

**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 assignment.

**Disclaimer:** The instructor reserves the right to make any changes he considers academically advisable. Changes will be announced in class, it is your responsibility to keep up with any changed policies.