NOTE: This Syllabus serves Lectures 1 & 2 and Recitations 1-23 of STT 315 for spring 2014. Professor Ramamoorthi reserves the right to make revisions to the Syllabus and the course schedule that he considers to be academically advisable. The date in the upper left indicates the date of this version of the Syllabus.

**Instructor:** R.V. Ramamoorthi WH C431, e-mail: ramamoor@stt.msu.edu

**Office Hours:** Monday, Wednesday 2.00—2.50 p.m. and by appointment

**Class Format:** There will be lectures on Mondays and Wednesdays and recitations on Thursdays. The main course material will be covered in the lectures and recitations will be used for supplementary material and problem solving.

**Lecture 1, Sections 1 – 11, attend M, W 8:30 - 9:50 am, 158 NR**

**Lecture 2, Sections 12 – 22, attend M, W 10.20 - 11.40 am, 158 NR**

**Course Description:** The learning objective is understanding some basic probabilistic and statistical methods that are applicable in business as well as most fields of study and life. This course will not make you an expert in statistics but will equip you with some of the basic concepts. The learning objectives are achieved by study and problem solving aided by class attendance and diligence. Your study should include the thoughtful reading of textbook material from Chapters 2 – 7 and attention to the material added in the lectures. Regular attention to the on-line homework administered through MyStatLab is critical to success in the course.

The course will cover selected material from Chapters 2 – 7 of the text **McClave, Benson and Sincich, Statistics for Business and Economics, 12th Edition, Pearson, 2012**

**Required Materials:**


(2) *Cell phone or tablet or laptop with wireless capability for in class quizzes (optional for bonus points)*

**Class Pages:** The STT 315 course information that we provide is found in the class pages on the web. Go to www.stt.msu.edu and follow the link **Class Pages** found at the bottom of the
page. All students should click on the STT 315 Lecture 1 link; it contains the information for all twenty two sections of STT 315.

**Exams, Quizzes and Home work.**

(See the section on exams etc for more details)

The total number of points possible, excluding bonus points for the course is 300.

1) There will be three in-class exams each worth 70 points. The lowest of these will be dropped in computing the course grade. **There will be no make up exams.** See the Exam section below for more details.

2) There will be a in-class Final exam at the end of the semester worth 100 points.

3) There will be in class quizzes using Tophat system. *See the section on inclass quizzes for details.* The lowest 10% of the scores would be dropped in computing the course score. These quizzes contribute to 15 bonus points towards the course grade.

4) There will be homework assigned through Mystatlab. The lowest 10% of these will be dropped. Home work will contribute 30 points.

5) There will be 30 points from your Recitation. Your recitation instructor will let you know the requirements for these.

**Grades:** Each in class exam is worth 70 points and I will drop the lowest of the four exam scores.

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</thead>
<tbody>
<tr>
<td>In class exam</td>
<td>70 x 2</td>
<td>= 140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final</td>
<td>100</td>
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<td></td>
</tr>
<tr>
<td>HW</td>
<td>30</td>
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</tr>
<tr>
<td>Recitation</td>
<td></td>
<td>30</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td>300</td>
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Bonus points: iclicker quizzes 15

The grades will be based on a straight scale roughly according to the following scheme:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>270---315</td>
<td>4.0</td>
</tr>
<tr>
<td>240---269</td>
<td>3.5</td>
</tr>
<tr>
<td>210---248</td>
<td>3.0</td>
</tr>
<tr>
<td>170---209</td>
<td>2.5</td>
</tr>
<tr>
<td>135---169</td>
<td>2.0</td>
</tr>
<tr>
<td>120---135</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Exams, Quizzes etc.

(a) **EXAMS:** There will be three in-class exams and one final. All the exams would be in multiple choice format. The exams are closed-book. **However, you may bring one 8.5” by 11” sheet of paper with formulas and notes written or typed on both sides to each exam.** Tables will be provided with the exams when it is appropriate to do so. Calculators such as the TI-83 and more recent versions are helpful and, if you plan to use one, it should be brought to exams and recitations fully charged.

*If you have any issue with the grades in an Exam, contact your TA within a week after the grades for the exam are made available.*

The lowest of three exam scores will be dropped. There will be no make-up exams. If you have to miss an exam for whatever reasons (personal problems, illness, religious observances, other commitments…) that would be considered as the exam to be dropped.

The tentative dates for the exams are:

- **Monday, February 10**, Monday, March 17 and **Monday, April 7**.
- **Final Exam: Lecture 1:** Monday April 28, 7:45-9:45 a.m.
- **Final Exam: Lecture 2:** Wednesday, April 30, 10:00-12:00 noon

(b) **HOME WORK:** You will be assigned exercises that are done on-line through the MyStatLab software. Your responses will be checked by the software and you will generally (There will be some exceptions) have three attempts to get a correct answer on each part of each exercise.

Look at the video below to get started on Mystatlab

Mystatlab youtube video for students

The home work will open and close on scheduled dates. In order to avoid last minute glitches (internet connection and such) make sure that you work on it earlier than the scheduled closed date.

StatCrunch (provided in MyStatLab), Excel, your TI calculator, or any of a number of software packages can be useful when solving exercises that involve a lot of data.

Each problem will have assigned points. I will use only 90% of the total score towards computing the final grade. That is if the assigned home work scores at the end of the term adds up to 200, and you have scored x, then it will contribute to x*(30/(.9)*200) to your course score. So if even you get 90% of the homework score, it will still add to 30 to your course score.

*If you have any issue with the grades in a homework, contact your TA within a week after the homework is closed. It is not possible to go back to homework that is more than a week old.*

(c) **IN CLASS QUIZZES:** 15 points. In class there will be simple quizzes with responses to be entered through your phone or similar device. As for the homework, I will consider only 90% of the quiz scores as the base for calculating the course scores. This is to accommodate for technical problems when your response does not work or when you forget to bring it. The quiz
scores are bonus points and will be added to your total score. Follow the link to know more about Tophat.

Tophat Student Manual
Tophat student guide

In order to register in Tophat you need a course code. Here are the course codes

Top Hat course name: Lecture 1 (Sections 1-11) - Statistics 315 - Spring 2014
Direct URL: https://app.tophat.com/e/294806
6-digit course code: 294806

Top Hat course name: Lecture 2 (Sections 12-22) - Statistics 315 - Spring 2014
Direct URL: https://app.tophat.com/e/659778
6-digit course code: 659778

I will soon try to send you an invitation to join Tophat and you can use it to register. If you have any issue with the grades in a quiz, please contact me within a week of the quiz.

(d) Recitation: 30 points from your recitations. These will be based on quizzes and other requirements that your recitation instructor will let you know.

Contact: If you need any help, please first contact your Recitation Instructor. They will be able to help you. They will provide you with their e-mail details.

If you want to write to me, please make sure that you mention the section you are in. Without that information, it is difficult to sort through a list of 700 students.