Course Objectives: This is a calculus based course in probability and statistics. Our goals will be to get basic understanding of concepts in probability and statistics and explore their applications to the sciences.

Textbook: Statistics for Scientists (Course Pack), by V. Melfi

Other Resources: Course slides and hand-out will be distributed throughout the semester.

Homework: There will be six homework worth 20 points each. One homework with the lowest score will be dropped. Late submissions are subject to a 20% point reduction. Homework assignments submitted two days after the due date would not be accepted. In addition, some reading and suggested homework problems from the text will be assigned.

Quizzes: There will be four quizzes worth 20 points each during the semester. Missed quizzes receive 0 points. Refer to the Make-up Policy for missed quizzes. One quiz with the lowest score will be dropped.

Group Project Assignments: There is one big group project assignment separated into three parts, each worth 20 points. The project is done by a group of 3 to 4 students. You will have your group mates till the end of the semester. Late submissions are subject to a 20% point reduction. Project assignments submitted two days after the due date would not be accepted. Missed group project receives a score of 0. Also there is one 10-mins presentation (8-mins talk and 2-mins questions) at the end of the semester (in the last two classes). The presentation takes up 30 points.

Exams: There will be three in-class Midterm Exams worth 100 points each and one comprehensive Final Exam worth 150 points. Calculators are allowed for all the exams. Smart phones are prohibited in exams. The tentative exam dates are:
You **must attend** all scheduled exams, including the final exam, at the scheduled time. If your schedule will not permit that during this semester then I suggest you take the course during a different semester. For more details, refer to the **Make-up Policy**. In addition, **bring your student ID** to each exam.

**Grading:** You must show the **complete** steps with **clear** explanation that lead to your final answer. Any false or incorrect assertion will subject to a loss of credit. There are 700 total points, earned as follows:

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<tbody>
<tr>
<td>Homework</td>
<td>5 \times 20 = 100 points</td>
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<tr>
<td>Quizzes</td>
<td>3 \times 20 = 60 points</td>
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<td>3-part-project assignment</td>
<td>3 \times 20 = 60 points</td>
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<tr>
<td>Presentation</td>
<td>30 points</td>
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<tr>
<td>Midterm Exams</td>
<td>3 \times 100 = 300 points</td>
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<tr>
<td>Final Exam</td>
<td>150 points</td>
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**Total** 700 points

The grading scale will be as follows:

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<thead>
<tr>
<th>Grade</th>
<th>90–100%</th>
<th>84–89.9%</th>
<th>78–83.9%</th>
<th>72–77.9%</th>
<th>66–71.9%</th>
<th>60–65.9%</th>
<th>50–59.9%</th>
<th>0–49.9%</th>
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</thead>
<tbody>
<tr>
<td>Grade Point</td>
<td>4.0</td>
<td>3.5</td>
<td>3.0</td>
<td>2.5</td>
<td>2.0</td>
<td>1.5</td>
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**Make-up Policy:**

- **Quizzes and Exams:** If you are unable to take a scheduled quiz or exam due to serious illness or other emergency, you **must** contact the instructor prior to the scheduled exam time with adequate documents (for example: a note from a physician or a letter from the dean). Then a make-up will be given after the scheduled quiz / exam. A missed quiz / exam, unaccompanied by a valid excuse, receives a score of 0. One student can at most have one make-up quiz and one make-up exam (including the final) during the entire semester.

- **Homework and Group Project Assignments:** Late submissions are subject to a 20% point reduction. Assignments submitted two days after the due date would not be accepted and receive 0 points.
Calculators: Calculators are needed in midterm exams and the final exam. You are responsible to bring a calculator to the exam. Smart phone calculators are not allowed in all exams.

Academic Honesty: The Lyman Briggs College adheres to the policies of academic honesty as specified in the General Student Regulations 1.0, Protection of Scholarship 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 may receive a 0.0 on the assignment or fail the course, and will be reported to the Dean.

To arrange for accommodation, students with disabilities should contact the Resource Center for People with Disabilities (353-9642).

Lyman Briggs College Academic Honor Code: “As a member of the Lyman Briggs College community, I vow to hold myself and my peers to the highest measures of honesty and integrity. I understand that this benchmark is set forth to advance the credibility and pride associated with our College. I will neither give nor receive any unauthorized assistance in completing my work, which includes, but is not limited to: papers, reports, exams, group-work, and classroom conduct.” http://www.lymanbriggs.msu.edu/current/honorCode.cfm

Students with Disabilities: MSU provides the Resource Center For Persons with Disabilities (RCPD); URL: http://www.rcpd.msu.edu/. Please contact the RCPD if you require special accommodations, and then schedule an appointment to meet with the instructor.

Disclaimer: The instructor reserves the right to make changes and additions that are academically advisable to any part of this syllabus. Such changes, if any, will be announced in class. Please note that it is your responsibility to attend the class and keep track of the proceedings.

Important Dates:

First day of class .................................................. Jan 12
Close of add period ........................................... Jan 16 (8 pm)
Martin Luther King day ................................. Jan 19
Last day to drop with refund ......................... Feb 6 (8 pm)
Last day to drop with no grade reported .......... Mar 4 (8 pm)
Spring Break, no class ................................. Mar 9 - Mar 13
Last day of classes ........................................... May 1
Final Exam .................................................. May 7 5:45 - 7:45 pm