Course Overview:

This is not a mathematics course; it is a statistics course. One implication of this is that arriving at a numerical answer is not enough; you need to know how to interpret your result within various contexts, including the frequentist interpretation of probability. Thus to do well in this course you will need to know and do more than just plug numbers into formulas and click buttons in Minitab. Note: the primary goal of this course is to provide you with an overview of Statistics as a discipline organized around a few key concepts as opposed to a grab bag of data analysis techniques.

Course Resources:

Website: I will post copies of all handouts, HW’s, HW solutions, etc., on the following website during the course: www.rose-hulman.edu/class/ma/inlow/Math223


Three-ring Binder: (Optional) This is a convenient way to store handouts, hw’s, quizzes, etc., all of which will be hole-punched.

Calculator: Four-function calculator (Optional). On some quizzes and exams you will not be allowed to use scientific calculators. However, you will be allowed to use a four-function calculator. So, if you don’t like doing simple arithmetic by hand, you might want to get one. Note: you will not be allowed to use cell phones or similar devices during quizzes or exams.

Office Hours: My office hours are periods 8 and 9, MTThF. My office is L148 in the library basement.

E-mail: I check my e-mail (inlow@rose-hulman.edu) daily.

Expectations:

Absences: You are expected to attend every class. If you miss a class for a valid reason you must e-mail me with justification for your absence; verbal notification is not adequate. If you miss for any reason you should see me to discuss what you missed in class that day.

Laptops: You will frequently need your laptops during class for doing data analysis and simulations. Use of laptops during class for purposes other than MA223 work is prohibited.

Cell phones: Use of cell phones or similar devices during class is prohibited.

Academic Misconduct: The Rose-Hulman student handbook states that academic misconduct “includes actions such as cheating, plagiarizing, or interfering with the academic progress of other students.” In accord with the handbook, I reserve the right to give reduced or no credit for work dishonestly done and to levy further penalties. For more details, see the student handbook.
Course Grade:

Your grade in the course is performance-based and is determined by the following:

**Homeworks:** I plan to assign about one hw per week. Late and/or e-mailed hw’s are not accepted. If a valid excuse is provided (in a timely fashion) for a missed hw, your hw average will be computed from the remaining hw’s; otherwise the missed hw will be included in the average with a value of zero.

**Quizzes:** I plan to give 4 announced quizzes covering assigned homeworks, text readings, and material presented in class. **There are no individual make-up quizzes.** If a valid excuse is provided (in a timely fashion) for a missed quiz the grade for the corresponding points will be determined from the average of your other quizzes. Otherwise the grade will be zero. If more than two quizzes are missed, you will be required to take a special, comprehensive make-up quiz worth two quizzes.

**Midterms:** There will be three midterms. **There are no make-up exams.** If you miss an exam for a *valid* reason, your final will then be worth 250 points instead of 150 points to make up for the points on the missed exam.

**Final:** The final is a comprehensive exam approximately twice the length of a midterm. Since this is a multi-section course, the final must be taken at the designated time. **The ONLY exception is for seniors who may be required by the course coordinator to take a different version of the final 10th week.** If you cannot take the final for a valid reason, you will be given an incomplete in the course.

**Formula:** Grades will be determined using the usual 90/80/70/60 breakdown. Plus grades will be awarded completely at my discretion and may be based on class attendance and participation in addition to overall point totals.

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<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>HW</td>
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<tr>
<td>Quizzes</td>
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<tr>
<td>Midterms</td>
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<td>Final</td>
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<td><strong>Total</strong></td>
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**Extra Credit:** No extra credit assignments will be given.