2014

MATH 116-03/04 Elementary Statistics

Holly Kaminski

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**MATH116-03, -04 ELEMENTARY STATISTICS**

*Spring 2014*

**Place and Time:**
Hailstones 1  
Sec 03: TR 10:00 - 11:15  
Sec 04: TR 11:30 - 12:45

**Instructor:**
Holly Kaminski

**Phone:**
745-3779

**Office Hours:**
Hinkle 122: TR 1:00 - 2:15, W 12:00 - 2:00, or by appointment

**E-Mail:**
kmanskiha@xavier.edu

**Math Tutoring Lab:**
Conaton Learning Commons 419; M-Th 10am-8pm; Fri 10am-2pm; Sun 2-8pm

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**Course Content:**
The discipline of statistics is the study of the collection and the analysis of random data. Statistical ideas and methods are especially useful in today's technically advancing world, in which data not only appears in a wide variety of contexts, but is also readily available. In this introductory course, students learn techniques to describe data (i.e., histograms, means, and standard deviation) and become proficient with classical tools for data analysis (e.g., confidence intervals, hypothesis testing, regression, and correlation). In the end, students should be able to turn data into information.

**Learning Outcomes:**
This course fulfills the following requirements of the Core Curriculum:
- Students will organize and express their ideas in writing
- Students will analyze and interpret texts, quantitative and qualitative data
- Students will evaluate the use of mathematics in society in an informed manner
- Students will utilize mathematical and logical reasoning and the language of mathematics with its own symbols, syntax, and semantics.

The most successful students will be able to explain why their statistical problem solving steps work, and will be able to assess which methods and techniques are appropriate to the scenarios presented.

**Text:**
*Stats: Data and Models - 3rd Edition* by DeVeaux, Velleman, and Bock

**Technology:**
We will make substantial use of the TI-83 or TI-84 graphing calculator. **You are expected to bring your calculator to class every day.** You are on your own if you choose to use a different model of calculator. *MathXL* will be required for online homework submission. Instructions will be provided on Canvas.

**Canvas:**
All course information will be on Canvas. You are required to check Canvas frequently for course announcements, updates, corrections, and new assignments. Any modifications to the schedule, homework assignments, or otherwise will be discussed in class and can be found here.
**Grading:**
The course requirements are weighed as follows:
- 60% Exams
- 20% Quizzes & In Class Activities
- 20% Online Homework

The semester grade will be calculated using the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>94-100</td>
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<tr>
<td>A-</td>
<td>90-93</td>
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<tr>
<td>B+</td>
<td>87-89</td>
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<tr>
<td>B</td>
<td>84-86</td>
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<tr>
<td>B-</td>
<td>80-83</td>
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<tr>
<td>C+</td>
<td>77-79</td>
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<td>C</td>
<td>74-76</td>
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<tr>
<td>C-</td>
<td>70-73</td>
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<tr>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
</tr>
<tr>
<td>D-</td>
<td>below 63</td>
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</tbody>
</table>

Note that extra credit work will not be assigned.


**Exams:**
These assessments will include a combination of multiple choice, short answer, and computational problems. Except for the final exam, these dates are tentative and subject to change. Make-ups are not given except under EXTREME extenuating circumstances. If you feel that you have such a circumstance you must notify the instructor in advance. Verifiable documentation may also be required.

**Quizzes / In Class Activities:**
There will be short quizzes and/or in-class activities during the semester. Quizzes are shown on the class schedule, but in-class activities will not normally be announced ahead of time. You will be able to use your notes and the lowest score will be dropped. If you miss a class during one of these activities, this will be treated as your “dropped” score.

**Online Homework:**
Weekly on-line homework assignments will be made available through MathXL and each will be due on the date indicated (normally Wednesdays at 11:59pm). Whatever you have completed as of the due date/time will be automatically submitted. Like quizzes, the lowest score will be dropped in this category.

Read the textbook! You’ll be surprised how much more useful class time is if you train yourself to read what will be covered ahead of time. This textbook is actually very well written. Be patient and focused when you read. Work through the practice problems and reread when the concept is unclear. You will be better prepared in class to ask intelligible questions and get a deeper understanding of the current concepts.

**Attendance:**
**Necessary and expected!!** In the class meetings you will be provided an introduction and explanation of new topics/concepts/variations, you will see how Excel is used, and you will see how problems are solved. Please practice good class-room etiquette: come to class on time, TURN OFF all cell phones as they interfere in a negative way with class interactions, refrain from disruptive behavior, and be respectful of your fellow classmates. If you are frequently or excessively late for class, it will have a negative impact on your course grade such as a bump down of your grade (i.e. from a B to a B-).
Snow Days:
In the event that class is cancelled due to the weather or otherwise, specific instructions on what to review/complete in preparation for the next class will be provided on Canvas.

Honor Statement:
You are expected to conduct yourself with academic honesty and personal integrity in this course. Students will be required to sign the following Honor pledge on all exams: “As a student at Xavier University, I have neither given nor received unauthorized aid on this exam”

During exams, absolutely no collaboration with other classmates is permitted. Academic dishonesty includes but is not limited to the unauthorized use of notes, cheat sheets, cell phones, and the like. Serious violations of the exam policy will result in a zero for that test/exam and referral to the Dean.

Hints for Doing Well in this Course:
• Come to class! Pay attention! Participate! Take notes!
• Read your book! Review your class notes!
• Try the problems! (even if you think you completely understand, often homework challenges you and makes you realize that you may not fully comprehend the material)
• Study together with classmates on a regular basis, but when it comes time for a test, practice problems on your own, without a partner and without notes, to simulate a test environment. If the first time you try problems on your own is on a test, you are not going to be prepared.
• If you have a question - ask!
• Smile! Enjoy! Don’t panic!
• Most importantly: If you don’t understand something or feel yourself falling behind, don’t wait - seek help!!!! You can visit me during office hours (or set up an appointment) or visit the math lab. You are ALWAYS welcome! That’s why I’m here! 😊

Disclaimer
Please be aware that although this syllabus provides a general guideline / description of this course, it is still subject to change. Official changes concerning the items contained in this document will be announced in class or posted on canvas.