2014

STAT 210-01/02 Business Statistics

Holly Kaminski

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STAT210-01, -02: BUSINESS STATISTICS
Spring 2014

Place and Time: Hailstones 15
Sec 01: MWF 10-10:50a.m. Sec 02: MWF 11-11:50a.m.

Instructor: Holly Kaminski
Phone: 513-745-3779

Office Hours: Hinkle 122: TR 1:00 -2:15, W 12:00 - 2:00, or by appointment
E-Mail: kaminskiha@xavier.edu

Math Tutoring Lab: Conaton Learning Commons 419; M-Th 10am-8pm; Fri 10am-2pm; Sun 2-8pm
While the tutoring lab does not specifically support STAT210, some of the tutors are equipped to offer assistance

Course Content:
This course is an introduction to the ideas and practice of statistics, one of the more powerful and pervasive tools of our current scientifically-based society. It presents methods for turning data into information. These methods are vitally important in business; this generation of future business managers will need to process relevant data, recognize and implement correct statistical methods, and most important, interpret the results and incorporate them into larger business decisions, thus turning data into information.

Statistics can be divided into descriptive statistics and inferential statistics and we will further breakdown the material into the following three areas. (1) Descriptive statistics is concerned with tabular, numeric and graphical techniques of summarizing data. This area is where we begin and it is covered in the first three chapters. (2) Inferential statistics is founded on the mathematical theory of probability. This subject and the concept of random variable are taken up in the following three chapters. (3) The connection with probability is made through the use of random samples. Inferential statistics provides the means to draw conclusions from data. Through random samples we are able to express precisely the level of confidence we may have in an inference. An introduction to this is found in the next three chapters.

Learning Goals:
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:

Technology:
*McGraw-Hill Connect Plus is required for this course.* Directions to register will be provided in Canvas. Homework assignments are distributed on-line through it and responses to them are entered into the same system.

This course makes use of Microsoft Excel as a computing tool. It will be used in the classroom and it is expected that it will be used for homework assignments. Connect provides a direct link to Excel. As with any unfamiliar piece of technology, you may experience an initial period of difficulty using Excel for statistics, but a bit of practice will suffice to reduce these periods so that you can concentrate not on the software but on the concepts you will be asked to master.

Calculators are permitted on all exams. But be aware that this is not a course in Excel or in calculator usage. You are expected to have basic calculator and computer literacy.

The computer stations in our classroom are intended to be used ONLY for learning statistics. They are NOT to be used for any other purpose (email, messaging, Facebook, etc.) during class time. I have the right to display your computer screen, if needed, on the classroom screen! Please have all cell/messaging devices off during class. It is inconsiderate of everyone to be disturbed by such. Anyone found using the computer or any other phone/messaging device during class for purposes unrelated to the course will be asked to leave the room for the remainder of that class. The use of any electronic devices (other than your calculator or Excel) during an exam is strictly prohibited. Use of phone calculators is forbidden.

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>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>84-86</td>
</tr>
<tr>
<td>B-</td>
<td>80-83</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>C</td>
<td>74-76</td>
</tr>
<tr>
<td>C-</td>
<td>70-73</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
</tr>
<tr>
<td>F</td>
<td>below 63</td>
</tr>
</tbody>
</table>

Note that extra credit work will not be assigned.


Exams:
Except for the final exam, these dates are tentative and subject to change. These assessments will include a combination of multiple choice, short answer, and computational problems. Make-up exams are not given except under EXTREME extenuating circumstances. If you feel that you have such a circumstance you must notify the instructor in advance of the exam, either using the phone or email address noted. 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 Connect and each will be due on the date indicated (normally Thursdays 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 read what will be covered in class ahead of time. There are very useful chapter summaries (called Conceptual Reviews) at the ends of the chapters to help you identify the main concepts and clarify the most important terminology. Be patient and focused when reading. Even if the text is difficult to understand, reading, and rereading what seems obscure, will alert you to terms, definitions, and concepts that will be discussed in class. Realize that you will be better able to formulate intelligent questions if you prepare. Reading mathematics is different from reading any other subject.

**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.

**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.

**LearnSmart Modules:**
Through the McGraw-Hill Connect website you can find LearnSmart modules prepared for each chapter of the textbook; these are “flash cards” that test your working knowledge of the concepts. While these modules do not contribute to your course grade, I urge you to take advantage of this very effective resource. Indeed, it is impossible to learn mathematical ideas without regularly and persistently doing a fair number of problems and devoting thought to exploring the underlying concepts.

**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.
**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-).

**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.*