2014

STAT 210-10 Business Statistics

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STAT210-10: BUSINESS STATISTICS
Summer 2014

Place and Time: SMH28; M - F 9:00a.m. - 12:45p.m. 5/12/14 - 5/23/14
Instructor: Holly Kaminski
Phone: 513-745-3779
Office Hours: Hinkle 122: MTWRF 1:00 - 2:00
E-Mail: kaminskiha@xavier.edu

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 (each area covers 3 chapters).
(1) Descriptive statistics is concerned with tabular, numeric and graphical techniques of summarizing data.
(2) Inferential statistics is founded on the mathematical theory of probability. We will also discuss the concept of random variable.
(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.

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:
Grading:
The course requirements are weighed as follows:
- 75% Exams (25% for each test)
- 20% Homework
- 5% Attendance and Participation

The course 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>
</tr>
<tr>
<td>B-</td>
<td>80-83</td>
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<tr>
<td>C+</td>
<td>77-79</td>
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<tr>
<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>
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<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:
These assessments will include a combination of multiple choice, short answer, and computational problems. You will use your computer workstations and be able to use your notes and your book during exams. These will be done at the end of the class for the last 60 minutes. 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.

Technology & Homework:
McGraw-Hill Connect Plus is required for this course and it has the option to include the e-book. This software allows for a "Free Trial" that lasts 21 days, so you shouldn't have to purchase the software for this intersession course. Directions to register will be provided in Canvas.

There will be 9 online homework assignments, one for each chapter. The due date for each of these assignments will be shown in Connect. Three chapters of homework will be due on the same day as the exam for the associated material. The assignments will be automatically submitted on the due date at 11:59pm, regardless of how much you have completed.

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

Canvas:
All course information will be on Canvas. You are required to check Canvas daily 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.
**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**
REQUIRED!!! With the pace of class, you can’t afford to miss even one day. For every day that you are absent, your grade will drop ONE letter grade. In other words, an A would become a B. A B+ would become a C+.

In the class meetings you will be provided 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, refrain from disruptive behavior, and be respectful of your fellow classmates. If you are frequently excessively late for class it will have a negative impact on your course grade.