2012

721-X14 Statistics for Managers

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STAT 721
Statistics for Managers
Xavier University - XMBA Class of 2014

Instructor: Dr. Greg Smith
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Office: 209 Smith Hall
Phone: 745-3245
Fax: 745-3455

Office Hours: Monday 4:00 - 6:00 pm
Wednesday 4:00 - 6:00 pm
Other times by appointment

Course Site: blackboard.xavier.edu

Classroom: XMBA Classroom

Class time: Saturday PM

Williams College of Business Mission:
“We educate students of business, enabling them to improve organizations and society, consistent with the Jesuit tradition.”

Class Text & Software:

Data Files:
All data files will be available via online platform

Course Description:
Models and formulas of descriptive and inferential statistics are presented using Microsoft Excel software, with an emphasis on the business applications of each.
My Vision:
A course in statistics is offered in a wide variety of disciplines - from the social sciences to business to the natural sciences. The same statistical methods are applied across disciplines. In this course you will learn basic descriptive statistical methods, sampling methodology, how to draw inferences from samples to larger populations and how to make predictions based upon historical relationships between variables. I’ve found that statistics is best taught through a series of clear and carefully worked examples. Therefore, theoretical background in descriptive and inferential statistical methods will be provided, however a great deal of time will be spent teaching you how to apply the theory to the real world through modeling. As we cover topics, if you do not have a clear understanding of one topic it is wise to seek help immediately as the next topic will build upon the previous one.

Ultimately, my goals are simple: to make you more aware, help you to reduce uncertainty in your business dealings, and help you ask the right questions.

Course Goals: Upon completion of this course, you should be able to:
• Identify the correct statistical methods, calculate statistics, and properly interpret the results in the context of the question or decision at hand.
• Translate the verbal description of a problem into a mathematical form suitable for appropriate statistical inference.
• Define the parameters and point estimates of a statistical inference problem.
• Identify critical assumptions and limitations associated with the implementation of a statistical inference solution.
• Analyze the result of statistical inference decision problems and recommended solutions.
• Accomplish statistical analysis using MS Excel.
• Analyze, evaluate, and critique statistics in practice.

Course Policies:
• The class will be presented as a hybrid course. All assignments and quizzes will be self-paced and are all due at the end of the course. I will be providing some basic insight into specific chapters most weeks with illustrative examples.
• Grade tracking and averaging is the responsibility of the student. Blackboard will be kept up-to-date for your convenience.

Computer Work:
A major component of the course is the use of EXCEL to analyze data. As such, a portion of class discussion will be devoted to initiating the creation of EXCEL models.

Academic Honesty:
"All work submitted for academic evaluation must be the student’s own. Certainly, the activities of other scholars will influence all students. However, the direct and unattributed use of another's efforts is prohibited as is the use of any work untruthfully submitted as one's own. The penalty for violation of this policy will be a zero for that assignment if it is a first offense. Subsequent violation will result in an F for the course."
Assignments, Quizzes, and Exams
All will be assigned and graded through McGraw-Hill’s Connect. The all coursework is due by December 15, 2012.

<table>
<thead>
<tr>
<th>Grade Distribution:</th>
<th>Grade Distribution:</th>
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<tbody>
<tr>
<td>A</td>
<td>95-100%</td>
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<tr>
<td>A-</td>
<td>90-94%</td>
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<tr>
<td>B+</td>
<td>87-89%</td>
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<tr>
<td>B</td>
<td>83-86%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
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<table>
<thead>
<tr>
<th>Grade Components:</th>
<th>Grade Components:</th>
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<tbody>
<tr>
<td>Homework</td>
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<tr>
<td>Quizzes</td>
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Class Schedule
(This is simply a guide and may be changed periodically. Check Blackboard for changes)

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<thead>
<tr>
<th>Class Date</th>
<th>Class Topics from ASW</th>
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<tbody>
<tr>
<td>9/29/12</td>
<td>Course Introduction</td>
</tr>
<tr>
<td></td>
<td>Short Review of Chapters 1,2,4</td>
</tr>
<tr>
<td>10/6/12</td>
<td>Discussion on Chapters 3 and 5</td>
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<tr>
<td>10/13/12</td>
<td>Discussion on Chapters 6 and 7</td>
</tr>
<tr>
<td>10/20/12</td>
<td>Discussion on Chapters 8 and 9</td>
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<tr>
<td>10/27/12</td>
<td>Discussion on Chapters 10 and 11</td>
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<tr>
<td>11/3/12</td>
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<td>11/10/12</td>
<td>Discussion on Chapter 13</td>
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<tr>
<td>11/17/12</td>
<td>Discussion on Chapters 14 and 15</td>
</tr>
<tr>
<td>12/1/12</td>
<td>Discussion on Chapter 18</td>
</tr>
<tr>
<td>12/8/12</td>
<td>Open Discussion/ADCI</td>
</tr>
</tbody>
</table>

Course Book Coverage:

Chapters 1, 2 and 4: In-class review
Self-Paced
Chapter 3: 3.1, 3.2(Percentiles), 3.3-3.8
Chapter 5: 5.1-5.2
Chapter 6: 6.1-6.3
Chapter 7: 7.1-7.2
Chapter 8: 8.1-8.3, 8.5
Chapter 9: 9.1-9.3
Chapter 10: 10.1-10.2
Chapter 11: 11.1-11.2
Chapter 13: 13.1-13.4
Chapter 14: 14.1.-14.4
Chapter 15: 15.1-15.2, 15.4
Chapter 18: 18.1-18.5