Math & Statistics Basics Review

Winter 2020

Instructor: Lawrence Morales – moralel@seattleu.edu

COURSE DESCRIPTION

This course provides MBA students with the basic quantitative skills in math, statistics, and accounting that are necessary and foundational for courses later in the MBA program.

LEARNING OUTCOMES

On successful completion of this course (i.e. by passing this course), you will be able to

1. Solve a variety of equations algebraically and interpret the results in real world contexts
2. Solve basic time value money problems both with formulas and with Excel/Spreadsheets
3. Find and evaluate simple marginal functions and interpret their meaning in real world contexts
4. Compute, describe, and explain measures of spread and measures of central tendency
5. Identify and describe the different kinds of variables used in basic statistics
6. Compute basic probabilities using summary data, data in tables, or with the General Probability Formula
7. Compute probabilities on the normal distribution curve using the empirical rule, tables, and Excel/technology

TEXTS AND MATERIALS

- No textbook is required; all reading materials will be provided inside the WAMAP course and will be free to students.
- No subscriptions to publisher homework sets or sites is required; all assessments and assignments will be free and custom built by one of the instructors.
## COURSE OUTLINE

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPICS</th>
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<tbody>
<tr>
<td>1</td>
<td>Rate of Change and Linear Growth</td>
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<tr>
<td>2</td>
<td>Nonlinear Models</td>
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<tr>
<td>3</td>
<td>Exponential Growth and Time Value Money Problems</td>
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<td>4</td>
<td>Basic Statistics Tools</td>
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<tr>
<td>5</td>
<td>Probability and the Normal Curve</td>
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## EVALUATION AND GRADING

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
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<tbody>
<tr>
<td>Homeworks (5 each, 20 points each)</td>
<td>100</td>
</tr>
<tr>
<td>Quizzes (5 each, 20 points each)</td>
<td>100</td>
</tr>
<tr>
<td>Final Assessment (100 points total)</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>300</strong></td>
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<table>
<thead>
<tr>
<th>Point scale</th>
<th>Letter grade</th>
<th>Point scale</th>
<th>Letter grade</th>
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</thead>
<tbody>
<tr>
<td>94.0% and higher</td>
<td>A</td>
<td>77.0% - 79.9%</td>
<td>C+</td>
</tr>
<tr>
<td>90.0% - 93.9%</td>
<td>A-</td>
<td>74.0% - 76.9%</td>
<td>C</td>
</tr>
<tr>
<td>87.0% - 89.9%</td>
<td>B+</td>
<td>70.0% - 73.9%</td>
<td>C-</td>
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<tr>
<td>84.0% - 86.9%</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80.0% - 83.9%</td>
<td>B-</td>
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Please note this grading scale is the same as used by the OMBA5000 course and that Albers usually considers a passing grade to be B or better.
COURSE POLICIES

ATTENDANCE

Attendance in an online course is evidenced by logging into, and being an active participant, in our online course site. Active participation is an essential and intrinsic element of the education process. Absence affects the learning experience and erodes the program’s norms for quality. Inactivity in the course may result in a grade reduction at the discretion of the instructor(s).

When you are planning an absence, it is your responsibility to notify the instructors via e-mail to arrange any necessary make-up assignments. Please contact your instructor(s) to discuss concerns.

INTERNET ACCESS

We will use a variety of online applications to communicate and collaborate. As such, you will need a reliable, high-speed Internet connection for the duration of this course. If you are traveling to countries such as China, Vietnam, Saudi Arabia, Iran, Burma, and others, some content in this course may be blocked. Please contact me immediately if you will be traveling to a country that may block Internet access during any portion of this class.

GETTING HELP

To get help with homework questions, use the “Post this question to forum” link that is below the problem. You will need to include an image of your work with your post/question or describe your thinking/work up to that point along with your question. To get help on a more personal or private matter, please use the WAMAP messages feature to contact me one-on-one. I make an effort to reply to all posts and messages before the end of the next business day. (Weekends and holidays I may not be online.)

LATE AND MAKE-UP WORK

You may use one late pass per homework and quiz. Each late pass extends your due date by 48 hours. However, the late pass MUST be used BEFORE the original due date. If you do not do so, the assignment goes into “Review Mode” and no work counts in the system. In that case, you will need to contact me as soon as possible (within a day) so I can manually extend your assignment. Manual extensions will carry a 25% penalty (on all work submitted past your deadline), unless extenuating circumstances are involved...contact me via WAMAP messages or email if that is the case so we can make arrangements.

If you KNOW that something has arisen in your personal life that is going to preclude you from meeting a deadline, please try to contact me BEFORE that deadline so we can discuss what reasonable extensions can be made. Doing so before the deadline will NOT come with a penalty.

SUBMITTING WORK

Guidelines for how to show work will be provided each week. See the numbered weekly folders for those links. You do NOT have to submit work you do for homework but you should keep all of it to review and study and you should write it up using the guidelines provided.

You DO need to submit your weekly quiz work. You will do so using “QuizWork” links, with one link per quiz. If you have any questions about your quiz scores or grading, I will first check that your work has been uploaded properly. If so, I will try to answer your questions. If not, I will ask to see all work for that quiz before I try to answer any questions.
UNIVERSITY RESOURCES & POLICIES

ACADEMIC RESOURCES

- Library and Learning Commons - Research Services, Learning Assistance, Writing Center, Math Lab, Media Production Center

ACADEMIC POLICIES

- Academic Integrity
- Academic Grading Grievance Policy
- Support for Students with Disabilities
  If you have, or think you may have, a disability (including an “invisible disability” such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff located in Loyola 100, (206) 296-5740. Disability-based adjustments to course expectations can be arranged only through this process.
- Notice Regarding Religious Accommodations
  It is the policy of Seattle University to reasonably accommodate students who, due to the observance of religious holidays, expect to be absent or endure a significant hardship during certain days of their academic course or program. Please see, Policy on Religious Accommodations for Students.
- Office of Institutional Equity
  Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in educational programs or activities that receive Federal financial assistance. This prohibition includes sexual misconduct, which encompasses sexual harassment and sexual violence. Seattle U remains committed to providing a safe and equitable learning, living, and working environment. Seattle U offers emergency, medical, and other support resources, as well as assistance with safety and support measures, to community members who have experienced or been impacted by sexual misconduct.

Seattle U requires all faculty and staff to notify the University’s Title IX Coordinator if they become aware of any incident of sexual misconduct experienced by a student.

For more information, please visit https://www.seattleu.edu/equity/. If you have any questions or concerns, you may also directly contact the Title IX Coordinator in the Office of Institutional Equity by email: oie@seattleu.edu or phone: (206) 296-2824.