Fall 2015

MATH 1032

Mary L. Thomas

University of New Orleans

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Survey of Mathematical Thought

Classroom: Internet  Days & Time: 12:00AM – 12:00AM
Instructor: Mary L. Thomas  Email: mlthoma2@uno.edu
Office: Math 250  Office Phone: (504) 280-6128
Office Hours: MWF 10:00AM – 11:00AM  TuTh 12:30PM - 2:00PM

Student Learning Objectives
Upon successful completion of this course the student should be able to:
- Compute simple and compound interest, finance charge on a loan or credit card, and the monthly payment on a mortgage.
- Distinguish between different types of annuities and retirement investments.
- Determine the empirical and theoretical probabilities on events occurring.
- Know and understand the elementary rules of probability.
- Use combinations, permutations, and/or the counting principle to determine all the possible outcomes of an event.
- Apply probability concepts to solve probability problems.
- Explain the difference between basic concepts of descriptive and inferential statistics.
- Use surveys and observations to gather data and represent their findings using various graphs and tables, including frequency distributions, histograms, stem and leaf plots, and scatterplots.
- Calculate and interpret measures of central tendency and dispersion (range and standard deviation).
- Apply the empirical rule to normal distributions and use normal tables (z-scores) to answer questions about the proportion of data under the curve.
- Analyze relationships between to quantitative variables using correlation and linear regression.

Attendance
Since this is an online course it is highly recommended that you log in, preferably daily, but at least four different days per week to watch video lectures, powerpoint slides, study examples, do homework assignments and quizzes.

Prerequisite
ACT Math score ≥ 19, SAT Math score ≥ 460, Compass MAlgebra score ≥ 40

Required Textbook/Materials
Computer & Internet: Access to a computer with reliable internet access

Required Textbook/Materials
Software: MyMathLab (packaged with textbook in bookstore)
You may purchase MyMathLab online http://www.pearsonmylabandmastering.com using the instructions on the MyMathLab registration document posted on Moodle. Purchasing MyMathLab online includes an electronic copy of the textbook.
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Materials: A three ring binder with loose-leaf paper and tabbed sections for notes, homework and quiz problems.

Calculator
Only scientific, Non-Graphing calculators are allowed on the Midterm and Final exams. No cell phones.

Tentative Course Calendar

<table>
<thead>
<tr>
<th>WEEK OF</th>
<th>Sections Covered</th>
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<tbody>
<tr>
<td>August 19</td>
<td>Introduction, Percent, Personal Loans and Simple Interest (Ch.11, Sect.11.1, 11.2)</td>
</tr>
<tr>
<td>24</td>
<td>Compound Interest, Installment Buying (Ch.11, Sect.11.3,11.4)</td>
</tr>
<tr>
<td>31</td>
<td>Buying a House with a Mortgage, Ordinary Annuities, Sinking Funds, and Retirement Investments (Sect., 11.5, 11.6)</td>
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<tr>
<td>September 7</td>
<td>Ordinary Annuities, Sinking Funds, and Retirement Investments, (Sect.11.6), Test 1 Test 1 due Fri., Sept. 11th</td>
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<tr>
<td>14</td>
<td>The Nature of Probability, Theoretical Probability (Ch. 12, Sect. 12.1, 12.2)</td>
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<tr>
<td>21</td>
<td>Odds, Expectation (Sect.12.3, 12.4)</td>
</tr>
<tr>
<td>28</td>
<td>Tree Diagrams(Sect. 12.5), OR and AND Problems (Sect.12.6)</td>
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<tr>
<td>October 5</td>
<td>Test 2 Test 2 due Wed., Oct. 7th</td>
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<tr>
<td>November</td>
<td>Sampling Techniques, The Misuses of Statistics, Frequency Distributions and Statistical Graphs (Ch. 13, Sect. 13.1, 13.2, 13.3)</td>
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<tr>
<td>9</td>
<td>Measures of Central Tendency (Sect.13.4)</td>
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<tr>
<td>16</td>
<td>Measures of Dispersion, The Normal Curve (Sect. 13.5, 13.6)</td>
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<tr>
<td>23</td>
<td>The Normal Curve, Linear Correlation and Regression (Sect.13.6, 13.7)</td>
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<tr>
<td>30</td>
<td>Test 4, Review for Final Test 4 due Wed., Dec 2nd</td>
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Mid – Term Exam
Saturday, October 10, 2015 10:00AM – 12:00PM
UNO’s Main Campus


**FINAL EXAM:** Monday, December 7, 2015 10:00 AM – 12:00 PM

**Other Important Dates**
- September 7: Labor Day Holiday
- October 14: Last day to Drop
- October 15-16: Fall Break
- November 26-27: Thanksgiving Holiday
- December 4: Last day of Class
- December 4: Last day of Class

**Grading:**
- On-line Quizzes (given in MyMathLab) 20% of your final grade
- On-line Tests 1,2,3,4 (given in MyMathLab) 20% of your final grade
- Proctored Midterm (given on UNO’s main campus) 27% of your final grade
- Proctored departmental Final Exam (given on UNO’s main campus) 33% of your final grade

**Notes:**
- The Final exam is comprehensive and departmental.
- THIS SYLLABUS IS SUBJECT TO CHANGE

**Student Conduct**
The University of New Orleans (UNO) is a multicultural community composed of diverse students, faculty and staff. UNO will not tolerate discrimination or harassment of any person or group of persons based on race, color, religion, sex, disability, national origin, age, sexual orientation, marital or veteran status or any other status protected by law. Each member of the university is held accountable to this standard, which is strongly reflected in this code.

**Academic Dishonesty**
Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at [http://www.studentaffairs.uno.edu](http://www.studentaffairs.uno.edu).

**Accommodations for Students with Disabilities**
It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to [http://www.ods.uno.edu](http://www.ods.uno.edu).

**How Class Will Be Taught**
Students will access the powerpoint slides and videos with worked examples in MyMathLab under “Assignments” for each lesson. Students are to watch the powerpoint presentation, and video lectures, take notes and study all of the examples before they attempt to do any homework or take a quiz. Students are to access additional worked examples in MyMathLab under the “Additional Examples” tab.
Syllabus

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on the navigational bar for further help before attempting to do the homework and quizzes. Students should work all homework and quiz problems out completely, showing all work, and keep the work organized in a binder for easy reference. They should use all allowed attempts for homework and quizzes to ensure the best grade and best understanding of the material.

Expectations of Students
Students are expected to log into MyMathLab at least four different days per week to work on assignments. Students are expected to complete all homework assignments, quizzes, and tests by the due dates posted on MyMathLab and on the syllabus. Students are expected to stay in communication with me and contact me if they have any questions or concerns. All correspondence will be made through the email address that you register with in MyMathLab. Please use your UNO email address. Students are expected to check their email frequently and read all announcements posted on MyMathLab.

Advice on How to Study for Tests and Exams
The best way to study and prepare for tests and exams will be different for every student. Here are some recommended guidelines for successfully preparing for tests and exams:

- View and study all powerpoints, videos, and worked examples. Keep these notes organized in a binder for easy reference.
- Work all homework and quiz problems out completely, showing all work, and keep this organized in a binder for easy reference. Use all allowed attempts for homework and quizzes to ensure the best grade and best understanding of the material.
- Before each test, complete the test review posted on MyMathLab. For any problems on the review that you may have struggled with, go back to the homework and find similar problems. Use the unlimited attempts on the homework problems to practice these problems until you are able to complete them without any outside help (i.e. book, notes, etc.).
- Before the test, you should be able to complete each problem set of the test review without any outside help in approximately one hour.

Assignments/Homework
The homework for this course will be completed in the “Homework” section of MyMathLab. You may do each assignment more than once to increase your score by selecting “Similar Exercise” to get a new problem. Homework is for practice. You will be required to score a minimum of 80% accuracy on section homework before you can attempt the quiz for that section.

Quizzes
The quizzes for this course will be completed in the “Quizzes & Tests” section of MyMathLab. You will see the due date for each quiz displayed on the left hand side of the quiz when you visit the “Quizzes & Tests” section. The quiz problems are similar to the homework problems on MyMathLab and those in the textbook. Quizzes are worth 20% of your overall average in the course. Each quiz can be taken up to 5 times before its deadline. Only the highest quiz grade for any quiz that you take more than once will be recorded in the gradebook. Each quiz will be due by 11:59 on the date assigned. Five quizzes will be dropped at the end of the semester to accommodate any missed quizzes.

Tests
There will be 4 semester online tests, as listed on the syllabus. The tests are worth 20% of your overall average in the course. NO TEST GRADES WILL BE DROPPED. NO TEST GRADES WILL BE CURVED. The tests for this course will be completed in the “Quizzes & Tests” section of MyMathLab. Each test will be timed and there is only one attempt. Once the test is available, you will see the open
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and close dates for the test displayed on the left hand side of the test when you visit the “Quizzes & Tests” section. Study guides for each test will be located in the “Test Reviews” section of MyMathLab. Make sure that you complete each study guide before taking the test.

To ensure academic integrity, all students enrolled in distance learning courses at the University of New Orleans may be required to participate in additional student identification procedures. At the discretion of the faculty member teaching the course, these measures may include on-campus proctored examinations, off-site or online proctored examinations, or other reasonable measures to ensure student identity. Authentication measures for this course are identified below and any fees associated are the responsibility of the student.

Midterm and Final Exam
The midterm and final exam will be taken on campus at UNO. Both exams will be pencil-and-paper exams, they will be hand graded, and you will have to show your work. These exams will NOT be taken in MyMathLab. The dates for the exams are listed in the Course calendar on this syllabus. Please note the dates of these exams. You must take the mid-term and final exams. The midterm exam is worth 27% of your overall average in the course and will cover sections 11.1 – 12.6. The Final exam is worth 33% of your overall average in the course and is comprehensive and departmental.

If you are an out of area student, you must contact me as soon as possible to discuss an acceptable off-campus testing facility for the midterm and final exams and to obtain a “Proctor Request Form”.

Grading Scale
The grading scale for this course is:

- 90% - 100% A
- 80% - 89% B
- 70% - 79% C
- 60% - 69% D
- 59% and below F

Tentative Test Dates
Test 1: Friday, September 11
Test 2: Wednesday, October 7
Test 3: Friday, October 30
Test 4: Wednesday, December 2

Criteria for Graded Assignments
Assignments, quizzes, and tests must be completed by the due date. Students are required to show work in order to receive full credit on the midterm and final exams. No work = No credit. The final answer must be clearly marked. All answers must be exact and simplified completely.

Make-up Test Policy
It is in your best interest to not miss a test. There are no make-up tests given. The lower of Tests 1 and 2 will be replaced by the mid-term if the mid-term grade is higher. The lower of Tests 3 and 4 will be replaced by the final exam grade if the final exam grade is higher.
Resources
Please come to my office hours on campus or e-mail me if you have a question. However, there is also free tutoring in the Math Tutor Center (Math 105). Based upon the availability of tutors, the math department may be able to provide free one-on-one tutoring.

Important Dates*
Last day to adjust schedule w/out fee 08/18/2015
Semester Classes Begin .................. 08/19/2015
Last day to adjust schedule w/fee,
or withdraw with 100% refund ...... 08/25/2015
Last day to apply for December commencement 09/25/2015
Final day to drop a course or resign 10/14/2015
Mid-semester examinations . 10/05-10/09/2015
Final examinations .................. 12/07-12/11/2015
Commencement ......................... 12/18/2015
*Note: check Registrar’s website for Saturday and A/B sessions, and for items not listed here: http://www.registrar.uno.edu

Fall Semester Holidays
Labor Day .............................. 09/07/2015
Mid-semester break............. 10/15-10/16/2015
Thanksgiving..................... 11/26-11/27/2015

Withdrawal Policy – Undergraduate only
Students are responsible for initiating action to resign from the University (withdraw from all courses) or from a course on or before dates indicated in the current Important dates calendar. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance. Failure to attend classes does not constitute a resignation. Check the dates on the Registrar’s website, http://www.registrar.uno.edu. Please consult The Bulletin for charges associated with dropping and adding courses.

Incomplete Policy – Undergraduate only
The grade of I means incomplete and is given for work of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

Repeat Policy
When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.
Graduate Policies
Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook:

Academic Dishonesty Policy

Safety Awareness Facts and Education
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://www.uno.edu/student-affairs-enrollment-management/

UNO Counseling Services and UNO Cares
UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at http://www.uno.edu/counseling-services/. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through http://www.uno.edu/fye/uno-cares.aspx.

Emergency Procedures
Sign up for emergency notifications via text and/or email at E2Campus Notification: http://www.uno.edu/ehso/emergency-communications/index.aspx. All emergency and safety procedures are explained at the Emergency Health and Safety Office: http://www.uno.edu/ehso/.

Diversity at UNO
As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university’s efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. http://diversity.uno.edu/index.cfm

Learning and Support Services
Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at http://www.uno.edu/lrc/.

Affirmative Action and Equal Opportunity
UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO’s compliance with federal and state regulations regarding EEOC in its Policies and Resources website: http://www.uno.edu/human-resource-management/policies.aspx