

Fall 2015

MATH 1032

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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

Textbook: A Survey of Mathematics With Applications, *Ninth Edition*, by Angel,
ISBN#: 9781256799276

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

WEEK OF		Sections Covered
August	19	Introduction, Percent, Personal Loans and Simple Interest (Ch.11, Sect.11.1, 11.2)
	24	Compound Interest, Installment Buying (Ch.11, Sect. 11.3,11.4)
	31	Buying a House with a Mortgage, Ordinary Annuities, Sinking Funds, and Retirement Investments (Sect., 11.5, 11.6)
September	7	Ordinary Annuities, Sinking Funds, and Retirement Investments, (Sect.11.6), Test 1 Test 1 due Fri., Sept. 11th
	14	The Nature of Probability, Theoretical Probability (Ch. 12, Sect. 12.1, 12.2)
	21	Odds, Expectation (Sect.12.3, 12.4)
	28	Tree Diagrams(Sect. 12.5), OR and AND Problems (Sect.12.6)
October	5	Test 2 Test 2 due Wed., Oct. 7th
Mid – Term Exam		Saturday, October 10, 2015 10:00AM – 12:00PM UNO's Main Campus
	12	Conditional Probability, The Counting Principle and Permutations (Sect. 12.7, 12.8)
	19	Combinations, Solving Probability Problems by Using Combinations (Sect.12.9, 12.10)
	26	Binomial Probability Formula, (Sect. 12.11), Test 3 Test 3 due Fri., Oct.30th
November	2	Sampling Techniques, The Misuses of Statistics, Frequency Distributions and Statistical Graphs (Ch. 13, Sect. 13.1, 13.2, 13.3)
	9	Measures of Central Tendency (Sect. 13.4)
	16	Measures of Dispersion, The Normal Curve (Sect. 13.5, 13.6)
	23	The Normal Curve, Linear Correlation and Regression (Sect.13.6, 13.7)
	30	Test 4, Review for Final
		Test 4 due Wed., Dec 2nd

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<i>FINAL EXAM: Monday, December 7, 2015 10:00 AM – 12:00 PM</i>

Other Important Dates

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

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>.

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>

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

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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.

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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.

Survey of Mathematical Thought**Graduate Policies**

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook:

<http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf>

Academic Dishonesty Policy

<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>

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>