

Fall 2015

## **MATH 1031**

Mary L. Thomas  
*University of New Orleans*

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Survey of Mathematical Thought

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**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 – 2:00PMStudent Learning Objectives

Upon successful completion of this course the student should be able to:

- Use inductive and deductive reasoning processes
- Define sets in roster form, set-builder notation, and by description
- Use methods to indicate sets, equal sets, and equivalent sets
- Perform set operations to find complements, intersections, unions, subsets, and cardinal numbers of sets
- Draw Venn diagrams and use them in applications
- Use symbols to represent statements and connectives in Logic
- Construct truth tables for compound statements
- Identify equivalent statements
- Find the greatest common factor and least common multiple using prime factorization
- Add, subtract, multiply, and divide integers
- Use order of operations
- Solve linear equations in one variable
- Solve application problems involving linear equations
- Identify geometric figures
- Find angle measures in geometric figures
- Find area and perimeter of geometric figures

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, study lecture notes and examples, do homework assignments and quizzes.

Prerequisite

ACT Math score  $\geq 19$ , SAT Math score  $\geq 460$ , Compass MAlgebra score  $\geq 40$

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

**Materials:** A three ring binder with loose-leaf paper and tabbed sections for notes, and a place to work homework and quiz problems.Calculator

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

**Syllabus**  
**Tentative Course Calendar**

**Fall 2015**

| <b>Week of</b>  | <b>Sections Covered</b>  | <b>Topic</b>   |
|---|--------------------------|--|
| August 19 <sup>th</sup>   | 1.1                      | Inductive Reasoning  |
|   |                          | Real Numbers   |
| August 24 <sup>th</sup>   | 2.1                      | Set Concepts   |
|   | 2.2                      | Subsets  |
|   | 2.3                      | Venn Diagrams and Set Operations                                   |
| August 31 <sup>st</sup>   | 2.4                      | Venn Diagrams with Three Sets and Verification of Equality of Sets |
|   | 2.5                      | Application of Sets  |
| September 7 <sup>th</sup>   |                          | Review for Test 1  |
|   | <b>1.1 – 2.5</b>         | <b>Test 1</b>  |
| September 14 <sup>th</sup>  | 3.1                      | Statements and Logical Connectives                                 |
|   | 3.2                      | Truth Tables for Negation, Conjunction, and Disjunction            |
| September 21 <sup>st</sup>  | 3.3                      | Truth Tables for the Conditional and Biconditional                 |
|   | 3.4                      | Equivalent Statements  |
| September 28 <sup>th</sup>  | 3.5                      | Symbolic Arguments   |
|   |                          | Review for Test 2  |
| October 5 <sup>th</sup>   | <b>3.1 – 3.5</b>         | <b>Test 2</b>  |
| <b>Mid-Term Exam</b>  | <b>UNO's Main campus</b> | <b>Saturday, October 10, 2015 10:00AM– 12:00PM</b>                 |
|   | 5.1                      | Number Theory  |
| October 12 <sup>th</sup>  | 5.2                      | The Integers   |
| October 19 <sup>th</sup>  | 5.3                      | The Rational Numbers   |
|   | 5.4                      | The Irrational Numbers   |
|   | 6.1                      | Order of Operations  |
| October 26 <sup>th</sup>  | 6.2                      | Linear Equations in One Variable                                   |
|   | 6.4                      | Applications of Linear Equations in One Variable                   |
| November 2 <sup>nd</sup>  |                          | Review for Test 3  |
|   | <b>5.1 – 6.4</b>         | <b>Test 3 (NO CALCULATORS ALLOWED)</b>                             |
| November 9 <sup>th</sup>  | 5.7                      | Arithmetic and Geometric Sequences                                 |
|   | 9.1                      | Points, Lines, Planes, and Angles                                  |
| November 16 <sup>th</sup>   | 9.2                      | Polygons   |
|   | 9.3                      | Perimeter and Area   |
|   |                          | Review for Test 4  |
| November 23 <sup>rd</sup>   | <b>5.7 – 9.3</b>         | <b>Test 4</b>  |
| November 30 <sup>th</sup>   |                          | Review for Final Exam  |
| <b>Final Exam Monday, December 7<sup>th</sup> 10 am – 12 noon</b><br><b>Room: To Be Announced</b> |                          |  |

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

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## Syllabus

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### Other Important Dates

|                |                          |                  |                      |
|----------------|--------------------------|------------------|----------------------|
| September 7    | Labor Day Holiday        | November 26 – 27 | Thanksgiving Holiday |
| October 14     | Last day to Drop Courses | 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 Exam (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

Lecture notes, with worked examples will be posted on MyMathLab for each lesson. Students are to read the lecture notes and study all of the examples before they attempt to do any homework or take a quiz. Students are to watch the video lectures, in MyMathLab, for the sections they are studying before they attempt to do any homework or take a quiz. Students should take notes while watching the video lectures, pausing the video when necessary. Students should work all homework and quiz problems out completely, showing all work, and keep this 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. 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

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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:

- Print lecture notes from MyMathLab. 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 on 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 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 of these tests 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 Tentative Course calendar of 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 1.1 – 3.5. 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, November 6

Test 4: Wednesday, November 25

**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,<br>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.

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### 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: <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>