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Fall 2015

## MATH 1031

Andrew Dodds  
*University of New Orleans*

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**MATH 1031 - 002**  
**A Survey of Mathematical Thought**  
**Syllabus – Fall 2015**

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**Instructor: Andrew Dodds**

**Email Address: aadodds@uno.edu**

**Class Days & Times: TTh 3:30-4:45**

**Office Hours: MWF 11:12:30, TTh 4:45-6:00**

**Office: Math 242**

**Office Phone: 504-280-1130**

**Class Room Location: Math 102**

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**Prerequisites:** You must have an ACT score  $\geq 19$ , a SAT score  $\geq 460$ , or a Compass Algebra score  $\geq 40$ .

**Required Materials:** **1. MyMathLab (MML):** Online quizzes and online homework assignments– ALL of these will take place using MyMathLab. Access to MyMathLab must be purchased. The course ID is **dodds81571**

\*\*\*\*\*You may purchase MyMathLab online at <http://www.pearsonmylabandmastering.com> using the instructions that are posted on Moodle. Please use 70148 as the zip code when setting up your MyMathLab access. Purchasing MyMathLab online includes an electronic copy of the book **A Survey of Mathematics with Applications – 9<sup>th</sup> Edition, by Angel, Abbott, and Runde.** ISBN: 9781256799276

\*\*\*\*\*If you would like to have the textbook in your possession and not read the online textbook, then you may purchase both the textbook and MyMathLab (packaged together) in the UNO bookstore.

**2. Calculator:** A Scientific calculator  
(No graphing calculators, smart phones, or any other device that can communicate wirelessly will be allowed)

**3. Access to a computer with reliable internet access**

*I highly recommend a notebook (three ring binder) with tabbed sections for notes, a place to work homework and quiz problems, and miscellaneous handouts (like worksheets, study guides and tests).*

**Communication:** All correspondence will be made through the e-mail address that you register with in MyMathLab. Make sure that you check your email frequently and check the home page when you log into MyMathLab for any additional announcements.

**Recommendations for this course:**

- Print any lecture notes from MyMathLab and fill them out in class. 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.
- Keep up with all MyMathLab homework/quiz assignments and complete them gradually and not on the due date.
- Make sure to redo the problems on your own once after getting help to make sure you understand the concept. Seek help from me as soon as possible if you are unsure about anything at all.
- Check your email often, and make sure that my email address is listed in your contacts so that my email messages do not go to your spam folder.
- When working out a study guide before a test, try not to use any help resources. This will give you a better idea of what you know and what you don't know.

## Tentative Instructional Outline

Week of	Sections Covered	Topic
August 17 <sup>th</sup>	1.1	Inductive Reasoning
		Real Numbers
August 24 <sup>th</sup>	2.1	Set Concepts
	2.2	Subsets
August 31 <sup>st</sup>	2.3	Venn Diagrams and Set Operations
	2.4	Venn Diagrams with Three Sets and Verification of Equality of Sets
September 7 <sup>th</sup>		Review for Test 1
	<b>1.1 – 2.4</b>	<b>Test 1</b>
September 14 <sup>th</sup>	2.5	Application of Sets
	3.1	Statements and Logical Connectives
September 21 <sup>st</sup>	3.2	Truth Tables for Negation, Conjunction, and Disjunction
	3.3	Truth Tables for the Conditional and Biconditional
September 28 <sup>th</sup>	3.4	Equivalent Statements
		Review for Test 2
October 5 <sup>th</sup>	<b>2.5 – 3.4</b>	<b>Test 2</b>
	3.5	Symbolic Arguments
	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>3.5 – 6.4</b>	<b>Test 3 (NO CALCULATORS ALLOWED)</b>
	5.7	Arithmetic and Geometric Sequences
November 9 <sup>th</sup>	9.1	Points, Lines, Planes, and Angles
November 16 <sup>th</sup>	9.2	Polygons
	9.3	Perimeter and Area
November 23 <sup>rd</sup>		Review for Test 4
	<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>		
<b>Room: To Be Announced</b>		

THESE DATES ARE **TENTATIVE**. THEY MAY CHANGE AND IT IS **YOUR** RESPONSIBILITY TO ATTEND CLASS TO HEAR ANY ANNOUNCEMENTS REGARDING THE CHANGE OF THESE DATES.

**Important Dates:**

Labor Day Holiday	Sept. 7
Last Day to Drop Courses	Oct. 14
Mid-semester Break	Oct. 15-16
Thanksgiving Break	Nov. 26-27

**Notes:**

- The final exam is departmental and comprehensive.
- There will be no extra credit given in this course.

**Attendance:** Attendance will be taken daily. If you miss a class for any reason, it is your responsibility to get the lecture notes that you missed. The tutors in the tutor center can go over them with you and you may come see me if you have any additional questions.

**Assignments/Homework:** The homework assignments for this course will be completed in the “Homework” section of MyMathLab. You may do each assignment and rework problems more than once to increase your score. If you get a problem wrong you can select “Similar Exercise” to get a new problem. If you want more practice, you can work problems in the textbook or in the Study Plan section of MyMathLab. It is to YOUR BENEFIT to work extra problems for any textbook section material that you need more practice with. If you need help with any homework, you may see me during my office hours or go to the Tutoring Center in MATH 105.

**Quizzes:** The quizzes for this course will be completed in the “Quizzes & Tests” section of MyMathLab. You will see the due dates for each quiz displayed on the left hand side of the quiz when you visit the “Quizzes & Tests” section. The quizzes are worth 15% of your overall average in the course. Each quiz can be taken more than once before its deadline, but your highest score on the quiz will be used in your overall average. You do not have to work the quiz questions in the order that they appear. You will be required to score a minimum of 80% on section homework before you can attempt the quiz for that section. Three quiz grades will be dropped at the end of the semester to accommodate any missed quizzes.

**Tests:** There will be 4 semester tests as listed on the syllabus which will be worth a total of **52%** of your final grade. NO TEST GRADES WILL BE DROPPED. NO TEST GRADES WILL BE CURVED. Make sure that you complete each study guide before taking each test.

**Final Exam:** There is a departmental, cumulative final exam which will be worth **33%** of your final grade.

**Make-up test policy:** It is in your best interest to not miss a test. A make-up test may be given for a verifiable excuse and will be handled on a case-by-case basis. If you miss a test for any other reason, the final exam grade will replace the zero for the missed test. Only one missed test will be replaced with the final exam grade. Any additional missed tests will be counted as a zero.

**Extra Help/Tutoring:** Your instructor is your first resource, so come to office hours 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. Please do not wait until you are in trouble before you seek help.

**Criteria for Graded Assignments:** Assignments, tests, and exams that will be graded for partial credit must adhere to the following guidelines: All answers **MUST** be supported by work. No work = No credit. The final answer must be clearly marked. All answers must be exact and simplified completely.

Your grade will be determined by the following	Details	Percent of Final Average
Quizzes	MyMathLab	15%
Tests	MyMathLab	52%
Final Exam	On UNO campus: Room TBA	33%
	<b>Total:</b>	<b>100%</b>

**Letter Grade Assignment:**

The grading scale for this course is

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

**Student Learning Outcomes:** Upon successful completion of this course the student will 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

**Expectations of Students:** Students are expected to attend each class meeting and stay until the end of class. Students are to print and bring to class the lecture notes posted on MyMathLab. Students are expected to refrain from disruptive behavior during the class meeting. This includes, but is not limited to: conversing with fellow students, texting, accepting phone calls, and working on assignments for other classes. You should do all assigned homework exercises and quizzes. Your success in the class will depend upon your ability to do homework problems, since quiz, test, and final exam problems are based on those.

**Student Conduct:** The University of New Orleans 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. The code is available online at <http://www.uno.edu/studentaffairs/student-policies/index.aspx>

As a Uno student, I expect that you will conduct yourself in a manner that demonstrates personal integrity and ethical behavior. Please be respectful to the rights and perspectives of others.

**Academic Integrity:** 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.uno.edu/studentaffairs/student-policies/index.aspx>

**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/>