

Math 129 – A Survey of Mathematics—Fall, 2011

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Mathematics All Around, 4th edition, Thomas Pirnot

The goal of this course is to give an introduction to the variety and power of mathematical techniques developed throughout the history of humankind. We will look at some of the great ideas of mathematicians and how these ideas can be used in everyday life. We will spend some time at the beginning of the semester learning about financial math that I hope you will find helpful. The most important requirement of this class is to be willing to have an open mind and be willing to try without fear of being wrong.

Please note the following guidelines for the course:

-Syllabus: We will cover parts of chapters 2, 3, 4, 5, 9, and 13.

-Attendance: Given the nature of the class, **attendance is critical**. Some of the material discussed in class will not come from the textbook. You are permitted 3 absences for the semester. On the 4th unexcused absence, you WILL be dropped from the class!! Contact me via e-mail to arrange test make-ups. Late homework will not be accepted.

-Homework: Legible, clearly labeled homework will be accepted! Please turn in neat homework. No late homework will be accepted. Your 3 lowest homework scores will be dropped. This syllabus is simply a guide – we will possibly fall behind, but we don't worry about it! All homework is due one week from when it is assigned.

-Exams: Dates for 3 exams will be announced in class. Make-up tests will only be given for valid excuses with the corresponding documentation. There will be no final exam, just a final test (Test #3) on the last day of the course.

-Grades: The criteria to assign your final grade will include the following:

Quizzes and homework:	200 points (lowest 3 grades dropped)
Exams (100 points each):	300 points
Project(s):	100 points

Some of the places where you can get help for this class include:

Algebra Table – 2nd floor, Dane Smith Hall

CAPS – Center for Academic Program Support, 3rd floor of Zimmerman Library (277-4560)

CATS – Counseling and Therapy Services; Student Health Center (277-4537). They can help if you suffer from exam anxiety.

Hints for success in Math 129:

*Do all of the assigned homework. From time to time, you will be asked to visit the math website or eReserves to find your assignments.

*Do NOT miss class! You WILL be dropped on your 4th absence. Documentation will be required for your 4th absence – sorry, but attendance is required to ensure your success in this class.

*Do get HELP! Make friends with your classmates and study together. Also visit the Algebra Table, go to CAPS, read your textbook (yes, it is possible to read it and understand the material!), and find a friend who is doing better in the class than you are!

TENTATIVE SCHEDULE:

Week #1	Topic	Assignment	Other Information
1 Aug 23, 25 Aug 26 th last day to add a class.	Percent Change, Taxes, Interest, Consumer Loans	9.1: #1-69 odds, 79 9.2: #5-25 odds, 31, 47, 49, 51 9.3: #5-11 odds, 17-33 odds	Get your syllabus online at math.unm.edu (list of courses, math 129)
2 Aug 30, Sept 1 (1/28 last day to add a course)	Annuities, Investments, Mortgages, Annual Percentage Rate	9.4: #5-19 odds, 29-43 odds 9.5: #3-17 odds 9.6: #3-11 odds	Amortization Project Assignment, project description on math.unm.edu. This project due Oct 11th.
3 Sept 6, 8 (Last day to drop a class without a grade is 2/4)	Review for Test #1 Test #1	Over Chapter 9	You may use a 3"x5" index card for your test.
4 Sept 13, 15	Guest Speaker Language of Sets	2.1: #7-15 odds, 28-29, 39-29 odds, 51-55 odds, 61-65 odds, 66, 68.	
5 Sept 20, 22	Comparing Sets Set Operations	2.2: #1-2, 4, 5-43 odds, 52. 2.3: #3, 9-53 odds.	
6 Sept 27, 29	Survey Problems Intro to Logic	2.4: 7-43 odds. 3.1: #29-40 all, 49-54	
7 Oct 4, 6	Truth Tables Conditional/Bicondtnl	3.2: #7-10, 25-30, 49-54. 3.3: #7-8, 11, 13, 15-18 all, 25-40 all.	

8 Oct 11	Verifying Arguments Euler Diagrams	3.4: #7-28 all. 3.5: #7-25 odds	Amortization Project due Oct 11
9 Oct 18, 20	Review for Test #2 Test #2	Over Chapters 2 & 3	3"x5" notecard for your test is OK!!
10 Oct 25, 27	More Logic Graphs, Puzzles	Sudoku/Logic Puzzles 4.1: 1-2, 7-47 odds	Fun!!!!!!!!!!!!!! ☺
11 Nov 1, 3	Traveling Salesperson Directed Graphs	4.2: #7-15 all, 21-33 all, 45. 4.3: #7-23 odds, 24	
12 Nov 8, 10	Number Systems Place Value Systems	5.1: #7-25 odds, 33-53 odds, 77. 5.2: #25-32 & WS	Worksheet on math.unm.edu
13 Nov 15, 17	Numbers in Other Bases Counting Methods Counting and Gambling	5.3: #7-41 odds, 91, 93. 13.1: 5-19 odds 13.4: 3-14	
14 Nov 22, 24	Guest Speaker Gambling Day		
15 May 3, 5	Review for Test #3 Test #3	Over 4.1-3, 5.1-3, 13.1, and 13.4	
Have	A	Great	Break!!!!!!!!!!!!!!