

Spring 2009
Term 20092

MAC 1105
College Algebra

Reference Number: 291887 MW 10:30 - 11:45 Rm: G-316
Reference Number: 291807 MW 2:00 - 3:15 Rm: G-315

Instructor: Lyn Noble

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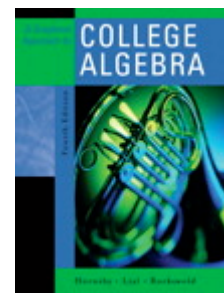
Home Page: <http://web.fccj.edu/~lnoble>

Office Hours:

Monday	Tuesday	Wednesday	Thursday
9:30 – 10:30am 12:30 – 2:00pm	9:00 – 9:30am 1:30 – 2:00pm 3:30 – 5:00pm	9:30 – 10:30am 12:30 – 2:00pm	9:00 – 9:30am 1:00 – 2:00pm

Catalog Description: Prerequisite: MAT 1033 with a grade of “C” or better or a satisfactory grade on the placement test. The major topics in this course are linear equations and inequalities; quadratic equations and inequalities; exponential and logarithmic functions; and applications. A review of algebraic techniques is also included in this course as well as a review of polynomials; factoring, exponents, roots and radicals. 3 contact hours.

Text: A Graphical Approach to College Algebra with MyMathLab by Lial, Hornsby, Rockswold, 4th Ed.



Other required material: TI-83 or TI-84 Graphing Calculator

Recommended: TI-83/84 Survival Guide (available in the bookstore)

Tentative Outline

Chapter 1.1 - 1.6

Exam 1

Grading Scale

90% - 100% A

Chapter 2.1 - 2.6

Exam 2

80% - 89% B

Chapter 3.1 - 3.4, 4.1 - 4.5

Exam 3

70% - 79% C

Chapter 5.1 - 5.6, 7.1, 7.7

Exam 4

60% - 69% D

0% - 59% F

Grades will be computed as follows:

Chapter Exams

65%

Homework

10%

Quizzes

10%

Final Exam

15%

Your final grade may be found using the formula

$$0.65 (\text{Exam Avg.}) + 0.10(\text{Quiz Avg.}) + 0.10(\text{Homework}) + 0.15 (\text{Final Exam})$$

Exams: You are expected to be present for all exams. You are allowed one make-up exam. Any subsequent missed exams will be counted as a zero. All make-up exams will be given during the week of April 14 - 20. You will not be allowed to start an exam after the first student has finished. A comprehensive final exam will be given on the day scheduled by the college. If you take all of the chapter exams as scheduled in class, the final exam may be substituted for your lowest exam grade.

Quizzes: A MyMathLab online quiz will be assigned for each section. All online quizzes are due at the start of class one week after the material is covered in class. You may take an online quiz as many times as you want, the highest grade will be recorded. Do not wait until the last minute to take an online quiz. No extensions will be given.

Homework: Homework will be assigned from the textbook. Homework should be turned in daily and will be checked for completeness and form. All work must be shown. No credit will be given for answers only. No homework will be accepted after an exam. It is extremely important that you keep up with your homework assignments in order to assist you in understanding the content of the course. Mathematics is NOT a spectator sport! If you don't understand any part of it - get help immediately!

Attendance Policy: Students are expected to attend class, to come on time, and to stay for the entire class period. Attendance will be taken each class meeting. Three tardies (coming late or leaving early) will count as 1 absence. A student absent from class is responsible for getting any missed material from a fellow classmate. Three bonus points (added on to your test grade) will be earned for perfect attendance during a testing period.

Automatic Drop: You will be dropped from the course if you have not attended at least one class meeting by January 12, 2009.

FN Grade: Good attendance is essential for success in this course. If you have missed more than 15% of the scheduled classes (5 class meetings) and you fail the course, you will receive an FN (Failure for non-attendance) grade. This grade may affect financial aid.

I Grade: A student may request an Incomplete grade (I) if they have completed at least 75% of the course with an overall course grade of at least a C average, and have a valid reason.

Student Academic Dishonesty Policy: Students found cheating on quizzes or exams will receive an F in the course and procedures for expulsion from the college will be followed. Cheating includes (among other things) copying another individual's work (or allowing someone to copy your work) or using cheat sheets (or programmed information) on a quiz or exam. For the full policy see the College Catalog.

State Mandate: The state mandates that a student may enroll in a course for a maximum of 3 times. Every enrollment counts - even withdrawals. Only "drops" submitted by the advertised deadline date (during the first week of a term) will not count as being enrolled. Out-of-state tuition must be paid on the 3rd attempt (\$846.15)

Other Policies:

1. Cell phone etiquette must be observed: In-class usage is restricted to emergency situations. Inform the instructor before class of any extenuating circumstances. Cell phones are not allowed during tests, not even as a calculator. Electronic devices, such as iPods, Blackberries, etc. are **not** permitted to be used or worn in class.
2. It is FCCJ policy that children under 16 are not allowed in the classrooms.

Learning Assistance Center (G-200) Free tutoring and computer tutorials are available.

Monday - Thursday: 7:30am - 9:00pm

Friday: 7:30am - 3:00pm

Saturday: 9:00am - 3:00pm

MAC1105 Tentative Outline

Monday	Tuesday	Wednesday	Thursday	Friday
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan
1.1 Rectangular Coordinate System		1.2 Introduction to Functions		
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
1.3 Linear Functions 1.4 Equations of Lines		1.4 Equations of Lines 1.5 Linear Equations & Inequalities		
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
Labor Day Holiday		1.5 Linear Equations & Inequalities 1.6 Applications of Linear Functions		
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan
2.1 Graphs of Basic Functions Review		Exam #1 Ch. 1		
2-Feb	3-Feb	4-Feb	5-Feb	6-Feb
2.2 Shifting Graphs 2.3 Stretching Shrinking Graphs		2.4 Absolute Value 2.5 Piecewise Defined Functions		
9-Feb	10-Feb	11-Feb	12-Feb	13-Feb
2.6 Operations & Composition		3.1 Complex Numbers Review		
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
President's Day Holiday		Exam #2 Ch 2		
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb
3.2 Quadratic Functions 3.3 Quadratic Equations & Inequalities		3.3 Quadratic Equations & Inequalities 3.4 Applications of Quadratic Functions		

MAC1105 Tentative Outline

Monday	Tuesday	Wednesday	Thursday	Friday
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar
3.4 Applications of Quadratic Functions 4.1 Rational Functions		4.2 More on Rational Functions		
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar
4.3 Rational Equations & Inequalities		4.4 Root Functions 4.5 Root Equations		
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
Review 5.1 Inverse Function Withdrawal Deadline		Exam #3 Ch 3, 4		
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
5.2 Exponential Functions		5.3 Logarithms & Their Properties		
30-Mar	31-Mar	1-Apr	2-Apr	3-Apr
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
5.4 Logarithmic Functions		5.5 Exponential & Logarithmic Equations		Good Friday Holiday
13-Apr	14-Apr	15-Apr	16-Apr	17-Apr
5.6 Applications of Exponential & Logarithmic Functions		7.1 Systems of Equations		
20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
7.7 Systems of Inequalities Review		Exam #4 Ch. 5, 7		
27-Apr	28-Apr	29-Apr	30-Apr	1-May
Final Exam				

MAC 1105 Homework Problems

Section	Page	Problems
1.1	8	25 – 33 odd, 41 – 51 odd, 55, 61, 65, 69, 77, 79, 85, 89, 91
1.2	20	1, 3, 5, 17, 21, 27 – 33 odd, 43 – 61 odd, 73a, PPT (1), PPT (2)
1.3	33	1, 3, 5, 9, 13, 15, 17, 23, 27, 31 – 55 odd, 69, 71, 73, 79
1.4	45	1, 7, 11, 17, 21, 25 – 31 odd, 35, 37, 41, 43, 45, 63, 67, 71, 73
1.5	62	1, 7, 15, 21, 25, 27, 29, 35, 37, 39, 45, 51, 55, 71, 75, 79, 83, 85, 91 – 99 odd, PPT(3)
1.6	73	5 – 11 odd, 33, 35, 41, 43, 47, 53, 59, 61 – 71 odd
2.1	100	11 – 25 odd, 33 – 41 odd, 49 – 59 odd, PPT (4)
2.2	108	1 – 7 odd, 11 – 19 all, 21, 23, 25, 31 – 41 odd, 51, 53, 55
2.3	121	1, 3, 5, 11 – 17 odd, 23, 27 – 35 odd, 41, 47, 49, 75
2.4	133	39 – 49 odd, 55, 57, 59, 63, 65, 81, 87, 89
2.5	144	5 – 11 odd, 15, 21, 33, 51
2.6	156	1 – 17 odd, 21 – 29 odd, 45, 57, 65, 71, 73, 83
3.1	179	1, 9, 17, 23, 25, 29, 31, 41, 43, 45, 51, 53, 55, 59, 89 – 97 odd
3.2	190	1, 3, 17 – 33 odd, 39, 47 – 57 odd
3.3	205	13 – 29 odd, 35 – 45 odd, 61, 63, 65, 77, 79, 85, 89 – 97 odd
3.4	213	1, 3, 5(omit d), 13, 21, 29
4.1	276	15, 17, 21, 23, 25
4.2	287	9, 11, 15, 19, 21, 27 – 33 odd, 39, 45
4.3	300	37 – 43 odd, 49, 51, 55 – 63 odd
4.4	315	69 – 75 odd
4.5	324	11a, 13a, 15a, 17a, 29 – 37 odd, 41, 43, 71, 75
5.1	346	1, 3, 7 – 13 odd, 17, 19, 21, 27 – 33 odd, 37, 39, 43, 45, 55 – 63 odd, 79, 81, 93, 117
5.2	359	1, 3, 25, 27, 31, 33, 41 – 57 odd, 77, 79, 81
5.3	371	3, 5, 7, 11 – 19 odd, 23, 31, 33, 35, 39, 45, 47, 51, 53, 57 – 63 odd, 69 – 93 odd
5.4	381	1, 9, 17, 25, 31 – 39 odd (omit 33), 43, 45, 47, 69
5.5	391	5, 7, 9, 15, 21, 23, 25, 29 – 37 odd, 41, 45, 47, 49
5.6	402	1, 3, 5, 15, 21, 23, 25, 39
7.1	475	9, 13 – 19 odd, 29 – 37 odd, 61 – 67 odd
7.7	544	1 – 13 odd, 27, 29