Fall 2009 Math 1301 (College Algebra) Syllabus

CRN 10159 MW 10:00 - 11:15 CRN 10449 MW 11:30 - 12:45

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Office Hours: MTWT 9:00 - 9:50 a.m. S712

Catalog Description: College-level topics in algebra including variation, systems of equations and inequalities, nonlinear inequalities, functions and their graphs, lines, quadratic equations and functions, complex numbers, polynomials, exponential and logarithmic functions, the algebra of functions, an introduction to plane analytic geometry, and applications related to these topics.

Prerequisite: A grade of "C" or better in MATH 1300, or placement by exam taken at UH-Downtown, with a score of 270 on the math section of THEA or 73 on Accuplacer.

Purpose: This course provides the background in algebra necessary for further study in college-level mathematics and its applications.

Audience: This is a college freshman-level mathematics course, which requires a background consisting of two years of high school mathematics or MATH 1300.

Textbook: *Essentials of College Algebra with Modeling and Visualization*, Third Edition, by G. Rockswold, Addison Wesley, Boston, MA, 2008. **Alternate:** *College Algebra with Modeling and Visualization,* Third Edition, by G. Rockswold, Addison Wesley, Boston, MA, 2006.

Note: There is a copy of the textbook in MyMathLab available with the purchase of an electronic access code.

Note: For emergency situations, a copy of this book is kept on reserve in the UHD Library and the Math Lab (N925). But the homework must be completed online.

What you need for the course:

1. You do need *a scientific calculator throughout the course*. A scientific calculator is one that includes "ln" and "log" keys.

2. Access to **t**he textbook listed above **and** an access code for MyMathLab.

3. A notebook or binder for class notes and problem solving.

Some Departmental Policies Regarding This Course:

1. Each instructor must cover all course topics by the end of the semester. The departmental final exam is comprehensive and questions on it can deal with any of the course material.

2. Each student is expected to purchase or otherwise have access to a scientific calculator throughout the semester and will be allowed to use a scientific calculator on the final exam. Graphing calculators are not required and the advanced features of a graphing calculator should not be used on any exam.

3. If the final exam score is less than 50, the student will receive an "F" for the course regardless of his or her average

Please remember that as a member of the UHD academic community you are bound to observe the academic honesty code in all your school work. A grade of 0 will be given for any course work where cheating is detected.

Course Content: The course covers the following sections of the textbook. In some cases, not all pages from a section are covered.

Chapters	*Sections*
Chapter 1	1.1 Numbers, Data, and Problem Solving 1.2 Visualization of Data 1.3 Functions and Their Representations 1.4 Types of Functions and Their Rates of change
Chapter 2	2.1 Linear Functions and Models 2.2 Equations of Lines 2.3 Linear Equations 2.4 Linear Inequalities 2.5 Piecewise-Defined Functions
Chapter 3	3.1 Quadratic Functions and Models 3.2 Quadratic Equations and Problem Solving 3.3 Quadratic Inequalities
Chapter 4	4.1 Nonlinear Functions and Their Graphs 4.2 Polynomial Functions and Models 4.4 The Fundamental Theorem of Algebra 4.5 Rational Functions and Models
Chapter 5	5.1 Combining Functions 5.2 Inverse Functions and Their Representations 5.3 Exponential Functions and Models 5.4 Logarithmic Functions and Models 5.5 Properties of Logarithms 5.6 Exponential and Logarithmic Equations
Chapter 6	6.3 Systems of Linear Equations in Three Variables

About the Course Grade:		**Grading Scale:**	
3 Tests (16% each)	48%	A	100-90
homework &quizzes	16%	B	89-80
Cumulative Final Exam	36%	C	79-70
		D	69-60
		F	below 60

The following case is an exception: If you score below 50 on the final exam, you will receive an "F" regardless of your course average.

Tentative Test dates (any changes will be announce with at least 1 week's notice)

- Test 1, Monday Sept 21. Test 2, Monday Oct 20. Test 3 Wednesday Nov 18.

MyMathLab online homework & quiz assignments

- **Online** homework & quizzes are for a grade: Access code comes with new textbook or purchased through http://www.pearsoncustom.com/tx/uhd_math/. If you purchased a MyMathLab code for MATH 1301 last semester (i.e. you are repeating the class), you DO NOT need to purchase a new code this semester. Your account will still be active, but you will need to enroll in a new section. You can complete assignments at home if you have a computer and Internet access, or use the following computers at UHD: The computers in the Math Lab (N-925), the Academic Computing Labs (S-800, C-300, B-200), the CMS Lab (S-738), and the SI Lab (S-405) can be used to access MyMathLab.

The MyMathLab courseIDs for my sections are (see handout for instructions on registering)

- **delavina91364 for 10:00 a.m CRN 10159** and UHD's zipcode is **77002**
- **delavina10982 for 11:15 a.m CRN 10449** and UHD's zipcode is **77002**

Class attendance/Make-ups.

- Good attendance is crucial in college, as I'm sure you've discovered by now. I will take attendance beginning the 2nd week of classes.
- *Policy:* If you do not miss more than 6 hours of class (4 class periods) and you have at least 80%, on your homework, then your final exam grade (if better) will replace your lowest test grade.
- Whenever you miss a class, it is your responsibility to check on your MyMathLab account for what material was covered, what assignments were made, if any, and the due dates.

- *Any missed grades will be recorded as zeros*. Make-up tests will not be given in this course. If you miss a test, that grade will be replaced by your final exam grade **only if** you notify me as soon as possible if you miss a test or know in advance that you will miss a test. If you do not notify me *promptly* with an *appropriate excuse*, you will receive a 0 for the test.
- No late assignments accepted.

Statement on reasonable accommodations: UHD adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. Students with disabilities should register with the office of Disabled Student Services and contact me in a timely manner to arrange for appropriate accommodations.

Where to get help:

- My office hours are for students to ask questions see times above.
- Our supplemental instructor, (T.B.A.), will be in each class and will announce tutoring times.
- Try study groups with students in our class.
- MathLab N925 has math tutors and computer access. Their hours will be announced the second week of school.
- Online MyMathLab resourses such as videos and hints for some homework problems.

Tips for Becoming a Successful College Student:

1. Come to class.
2. Read your book.
3. Do your homework.
4. Listen and ask questions.
5. Contribute to classroom discussions.
6. Use any tutoring resources that are available.
7. Interact with your teachers, either face to face or using the phone or email.
8. Form study groups with your classmates.
9. Meet with your advisor.
10. Get involved in campus activities.
11. Share new ideas with your friends and family.

VISIT THE UHD ALGEBRA STUDENT WEB PAGE FOR MORE INFORMATION:

http://cms.uhd.edu/qep/algebra