



## **COLLEGE ALGEBRA MATH 1314 - DE - Blackboard, CRN 69068, 76692**

**COURSE SYLLABUS** for Spring 2011 - 16 weeks, **January 18 - May 15, 2011**

**Instructor:** Dr. Helen Lee Wylie, Town & Country Campus, Room AD5, 713-718-5658, Office Hours, **7 - 8 am and 12:30 - 3 pm. MW and by appointment. Online, usually morning and at night during the week. Occasionally on weekends. For emergencies only (death, car wreck, in hospital) cell 281-955-9061**

**Course Description:** Topics include quadratics, polynomial, rational, logarithmic and exponential functions, systems of equations, matrices and determinants, parabolas and ellipses. A departmental final examination will be given in this course. 3 credits.

**Book:** College Algebra, Alternate edition; Lial, Hornsby, and Schneider, Addison Wesley, 2008. ISBN # 0-321-49185-8. A new book is packaged with MyMathLab id, solutions manual, and a CD. You may use MyMathLab if you want. It is not required. It has multimedia, tutorials and problems to work interactively. If ordering online, please pay for a speedy delivery so you won't get behind. I recommend that you get the solutions manual.

**Prerequisites:** Math 1312 "C" or its equivalent or an acceptable placement test score.

**Please use the following address to see all the policies and procedures for DE Students in the DE Student Handbook at \* [http://de.hccs.edu/de/de-student-handbook\\*](http://de.hccs.edu/de/de-student-handbook*).**

**Course intent:** This course is designed as a review of advanced topics in algebra for science and engineering students who plan to take the calculus sequence in preparation for their various degree programs. It is also intended for non-technical students who need college mathematics credits to fulfill requirements for graduation and prerequisites for other courses. It is generally transferable as math credit for non-science majors to their disciplines.

**Grading Policies:** 90 - 100 => A, 80 - 89 => B, 70 - 79 => C, 60 - 69 => D, below 60 is an F

**The last day to withdraw with a W from the course is APRIL 21ST at 4pm. You must withdraw by then or you will get the average of all required tests. New students are only allowed 6 withdrawals in their academic career and still receive a degree. Now you can withdraw online at: <https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCD=ENG> . I expect you to withdraw yourself as I don't want to be responsible for a 6th W. Be very careful about withdrawals.**

**60% of your grade will be from the 4 UNIT TESTS (online, 1 attempt) that you take.**

**10% of your grade will be from homework grades consisting of 4 UNIT REVIEW TESTS. (which you can do 3 times until correct, though Blackboard tracks the time spent and number of times**

**you attempt the homework).**

**30% will be from the Final Exam which is in the TESTING CENTER. Or if you are out of town, you have to go through the DE office to get a proctor. (1 attempt I will tell you type of problems on it)**

**You will know your grades for those tests/reviews done online immediately . There are no make up exams so you must follow the CALENDAR on the HOMEPAGE very carefully. So please make note of the testing times. I am going to leave all TESTS and REVIEWS open for the whole semester. HOWEVER, You have to have 2 units completed (REVIEWS and TESTS) by Tuesday, March 22. If you don't I will drop you. I had to drop about 8 students per class last semester because they didn't keep up. Please adjust your schedule accordingly as Blackboard works for groups, it does not work with individual schedules.**

**Objectives:** At the completion of this course, a student should be able to:

1. Solve linear equations and some word problems.
2. Solve Quadratic Equations in one variable by factoring, completing the square and the quadratic formula.
- 3, Solve a literal equation for a specified variable.
4. Find the distance between two points in the Cartesian Plane.
5. Solve radical equations, fractional equations, and equations of quadratic form.
6. Recognize the equation of a straight line, graph a straight line, find the slope, intercepts of a line, know the relationship between the slopes of parallel and perpendicular lines, and be able to determine the equation of the line from information given.
- 7, Know the definition of a function, determine the domain and range of a function, evaluate expressions involving functional notation, simplify expressions involving the algebra of functions, graph functions by plotting points, know the definition of inverse functions, and given a function find its inverse.
8. Graph linear,quadratic,piece-wise, and absolute value functions.
9. Solve linear, quadratic and absolute value inequalities and give solutions in interval notation.
10. Graph the solution of a linear inequality system in two variables.
11. Understand vertical and horizontal shifts of graphs and stretching, shrinking, and reflection of graphs of functions.
- 12.Solve quadratic and rational inequalities.
13. Solve system of equations in three variables by algebraic techniques.
14. Solve systems of linear inequalities by graphing.

15, Graph and find equations of circles.

16. Understand exponential and logarithmic functions.

**GENERAL TIMELINE** (specifics in each unit in the CALENDAR on the HOMEPAGE) Please watch the CALENDAR on the HOMEPAGE as these times are dependent on the semester. The first week we will be doing Assignment 1 in the START HERE folder.

<b>UNIT ONE</b>	3 weeks		SECTIONS - Chapter 1.4 - 1.8
<b>UNIT TWO</b>	4 weeks		Chapter 2.1 - 2.7
<b>UNIT THREE</b>	3 weeks		Chapter 3.1 - 3.5
<b>UNIT FOUR</b>	4 weeks		Chapter 4.1 - 4.5, 5.1, 5.5, 5.7
<b>FINAL EXAM</b>			

NEW DE STUDENT USER ID:

Your Blackboard login user ID will be **your HCC User ID (sometimes referred to as the "W" number)**. All HCC students have a unique User ID. If you do not know your User ID you can look it up using the following links:

a) From [www.hccs.edu](http://www.hccs.edu), click on "Login Help" under the "Student System Sign In" field

Then click on "Retrieve User ID" and follow the instructions.

Or use the direct link:

<http://hccsaweb.hccs.edu:8080/servlets/iclientservlet/sauat/?cmd=start>

The default student password will still be "distance". As always, the students will then be prompted to change their password after their first login. Please visit DE Technical Support FAQs if you need additional assistance with your login.;

**STUDENTS WITH DISABILITIES:** Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc) who needs to arrange reasonable accommodations must contact the appropriate HCC Disability Support Service (DSS) Counselor at the beginning of each semester. Faculty

are authorized to provide only the accommodations requested by the Disability Support Services Office.

Students who are requesting special testing accommodations must first contact the appropriate DSS Counselor for assistance. Please contact the Distance Education Counselors at 713.718.5275, option #4 or at [de.counseling@hccs.edu](mailto:de.counseling@hccs.edu) in order to be referred to the appropriate HCC DSS Counselor.

### **HCCS Course Withdrawal Policy**

The State of Texas has begun to impose penalties on students who drop courses excessively. That is, if you repeat the same course more than twice, you have to pay extra tuition. In addition, as of Fall 2007, students are limited to no more than SIX total course withdrawals throughout their education career at a Texas public college or university, or they will not get a degree. To help students avoid having to drop/withdraw from any classes, HCC has instituted an Early Alert process by which your professor will "alert" you and Distance Education (DE) counselors that you might fail a class because of excessive absences and/or poor academic performance. Contact your DE professor regarding your academic performance or a DE counselor to learn about what, if any, HCC interventions might be available to assist you - online tutoring, child care, financial aid, job placement, etc. - to stay in class and improve your academic performance. **You can withdraw yourself at : <https://hccsweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCD=ENG>.** If you don't withdraw before the deadline, you will receive the grade that you have earned by the end of the semester. Zero's will be averaged for the required assignments not submitted. Deadline: November 18, 2010 by 4 pm.

Students who require testing accommodations need to schedule an appointment for testing to ensure that staff will be available for proctoring and to arrange for any adaptive equipment that may be required. Students should contact the distance education instructor's "Instructional Support Specialist" (ISS) the week prior to each exam throughout the semester to confirm that the requested testing accommodations will be met. If you need assistance in determining your instructor's ISS, please contact your instructor or the Distance Education Counselors for assistance.

**DISTANCE EDUCATION ADVISING AND COUNSELING SERVICES:** Advising can be accomplished by telephone at 713.718.5275 - option #4, via email at [de.counseling@hccs.edu](mailto:de.counseling@hccs.edu), by visiting the Distance Education Office at the HCC Administration Building, 3100 Main Street, 3rd floor and/or by on-site advising at other HCC locations upon request. Confidential sessions with the distance education counselors will help students understand admissions, registration, entrance testing requirements, degree planning, transfer issues, and career counseling. Houston Community College counselors also maintain a local referral base in order to provide appropriate referrals to students with personal or family issues that may require long-term solutions.

**INTERNATIONAL STUDENTS:** Receiving a W in a course may affect the status of your student Visa. Once a W is given for the course, it will not be changed to an F because of the visa consideration. Since January 1, 2003, International Students are restricted in the number of distance education courses that they may take during each semester. **ONLY ONE** online/distance education class may be counted towards the enrollment requirement for International Students per semester. Please contact the International Student Office at 713.718.8520 if you have any questions about your visa status and other transfer issues.

**VIRTUAL CLASSROOM CONDUCT:** As with on-campus classes, all students in HCC Distance Education courses are required to follow all HCC Policies & Procedures, the Student Code of Conduct, the Student Handbook, and relevant sections of the Texas Education Code when interacting and communicating in a virtual classroom with faculty and fellow students. Students who violate these policies and guidelines will be subject to disciplinary action that could include denial of access to

course-related email, discussion groups, and chat rooms or being removed from the class.

**NOTICE FOR STUDENTS WHO LIVE OUTSIDE OF HOUSTON:** Students outside the Houston area and cannot take paper exams at one of our HCC testing locations **MUST** make arrangements for a proctor. Please see the Distance Education (DE) Student Services webpage for information at the following URL: [http://distance.hccs.edu/de-counseling/student\\_out\\_houston.htm](http://distance.hccs.edu/de-counseling/student_out_houston.htm).

**USE OF CAMERAS AND/OR RECORDING DEVICES:**

Use of recording devices, including camera phones and tape recorders is prohibited in classrooms, laboratories, faculty offices, and other locations where instruction, tutoring, or testing occurs. Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office with Disabilities for information.