

**MATHEMATICS DEPARTMENT**  
Houston Community College-Southeast  
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**Math 0312: Intermediate Algebra, CRN 54200**  
Course Syllabus and Outline

**Course Description:** Topics include factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic and systems of equations, graphing quadratic equations, and an introduction to functions.

**Prerequisites:** Math 0308 or equivalent test score.

**Course Objectives:** Upon completion of this course, a student will be able to : add, subtract, multiply, and divide polynomials, rational expressions, radicals and complex numbers;; simplify complex fractions; solve quadratic equations and equations involving rational expressions; graph linear and quadratic equations and inequalities in two variables; find the slope of a line; simplify radicals; solve systems of equations; solve application problems; recognize functional notation and evaluate functions.

**Textbook:** *Intermediate Algebra*, Lial, Hornsby and McGinnis, ninth Edition, Pearson Publishing Co.

**Class Attendance:** Class is very important. If some unavoidable situation arises which causes you to miss class, then please keep me advised. Otherwise, if you absences exceed four classes during this course, you can expect to be administratively withdrawn. Attendance count will begin with the first class of the second week of class.

**Supplemental Materials:** A videotape series is available in the library. A student solutions manual is available in the bookstore. Student solution manual are on reserve in the library. You are encouraged to use MyMathLab online tools such as video lectures and exercises to improve your understanding and performance. You may also seek assistance in the Tutoring Assistance Center, Room 215, or in the math lab, room 2003. **You are required to attend one afternoon session with Ms. Finch each week. (Please schedule a day with Ms. Finch as soon as possible.)** A schedule of tutoring hours will be posted in your classroom.

**Office Hours:** MW 12:15-1:45 for assistance with class work or for conferences.

**Calculators:** Calculators may be used for homework; **you are encouraged to purchase a TI-84.** However, calculators are never to be used on quizzes or examinations.

**Cheating:** Anyone determined to be cheating on examinations will be dismissed from the HCC System. One warning will be given to any student suspected of cheating. A second violation will result in the student being withdrawn from the course with a grade of F and possible total dismissal from the college.

**Make-up Tests:** On test days the lecture will be given the first half of class and the test will be given the last half of class. This way if a student needs extra time to finish the test, this will not conflict with the time needed for the lecture. There will be no make-up tests under any circumstances. Missing only one test will not penalize any student. In the event that a student should misses one test, the final exam grade will be substituted in its place.

**Examinations and Grading:** Four tests will be given during the course totaling 52% of your grade. Performance on quizzes will determine another 13%. Typically, the best 4 of 5 quizzes will be counted. A comprehensive final exam will be given counting 25% of your grade. The remaining 10% will come from homework.

**Grading Scale:** The final letter grade will be determined accordingly:

100-90	A
89-80	B
79-70	C
Below 70	IP or F

***For all East Early College Students: You are required to receive a B or better in order to progress to College Algebra!***

**NOTE: A grade of F will be issued if the student has previously received an IP for this course.**

**Homework:** Homework will be assigned and maintained in a spiral notebook, which must be turned in and graded at the end of each grading period. Homework exercises must be copied and work must be shown to receive full credit.

**Final Exam:** A comprehensive departmental exam constructed by the Houston Community College Math Department will be given and **must be passed** to receive credit for this course. *Passing is 60% on the final exam.* Students who complete the course by taking the final exam will not be eligible to receive a "W" for the course.

**Disabilities:** Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) Who needs to arrange reasonable accommodations must contact the Disability Services Officer at the respective college at the beginning of the semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office. The counselor for Southeast is Lilian Baldwin. She can be reached at 713.718.7218

**Cell Phones and Pagers:** Please turn them off prior to class.

**Co-requisite:** Houston Community College enforces developmental prerequisites and co-requisites of college-level courses. When a student enrolls in a college-level course that has developmental course co-requisites, he/she must also co-enroll in the developmental co-requisite course. If the student withdraws or is withdrawn for non-attendance from the co-requisite developmental course(s), the student must also be withdrawn from the college-level course. Override capability of this policy is reserved for developmental department chairs and deans only.

**Repeated Attempts:** Students who repeat a course two or more times may soon face significant tuition/fee increases at HCC and other Texas public colleges and universities. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as early as possible about your study habits, reading and writing homework, test-taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available."

#### **Basic Competencies:**

**Reading:** You are expected to read your math book before you come to class. Read the sections which will be covered in class.

**Writing:** When doing your homework assignments, copy each problem out of the book and show all of your work. If necessary, explain the steps taken to solve the problem.

**Speaking:** If you are having problems setting up a homework problem, be prepared to present the problem in class so that we can discuss the solution method as a group.

**Listening:** You are responsible for any material presented in class during lectures.

**Critical Thinking:** Application problems are an integral part of mathematics. You will be assigned numerous application problems and should expect to see similar problems on your exams.

**Computer Literacy:** there are numerous web sites which can help explain algebra concepts to you. You will find a short list below:

[www. Purplemath.com](http://www.purplemath.com) An excellent resource page

<http://www.awl.com/tutorcenter/stinfo.html> Tutor center for Addison Wesley

<http://www.harcourtcollege.com/math/nettutor/0030260264>

<http://mathworld.wolfram.com/e.html>

[Http://portmorgan.com/math/algebra/b079.gif](http://portmorgan.com/math/algebra/b079.gif)

The instructor has the right to change the syllabus during the course of the semester.