

## District Syllabus for MAT0024C - College Preparatory Algebra

Last Revised: 7/25/2005

Credit Hours: 3  
Contact Hours: 4  
Laboratory Fee: None  
Prerequisites: No Prerequisites exist for this course.  
Corequisites: No Corequisites exist for this course.

### Catalog Description:

This course is designed for the student who has had no algebra or has very little knowledge of the subject. Topics to be covered will include simplifying and evaluating variable expressions; solving linear equations, inequalities and related word problems; operations with polynomials; factoring; some algebraic fractions; quadratic equations; radicals and introduction to graphing.

### Required Materials: Books:

- Martin-Gay. Beginning Algebra (with student study pack). 4th ed. Prentice Hall. 2005

### Supplemental Materials:

Additional materials may be assigned by an instructor to supplement the required materials.

### Special Requirements:

Appropriate score on the Florida Entry-Level Placement Exam or completion of MAT0002C.

### EXIT COURSE POLICIES

According to Florida state statutes and to the Department of Education, students taking exit courses must pass the course work, as determined by the instructor, and the Florida Basic Skills Exit Test, which will be given during the final exam time.

Below are the policies for these courses:

1. Grades Given in Exit Courses: A, B, C, N, F, or I (for incomplete) (+ grades may also be given)
2. You must pass the course and the exit exam in order to move on to the next level course.
3. If a student is not passing the course at the end of the term, he/she will not be allowed to sit for the exit exam during the final exam period. Whether or not a student is passing will be determined by the grade evaluation as stated on the instructor's section syllabus.
4. If you fail to pass the exam on the first attempt, you will be given an opportunity for a re-take of the exit exam.
5. You will NOT be allowed to use a calculator on the prep algebra exit exam. You will NOT be allowed to use a dictionary or other resource materials on the prep reading and prep writing exit exam.

### Major Learning Outcomes:

This comprehensive course will give students a review of fundamental algebraic operations. The student will learn to evaluate and simplify polynomial expressions, solve equations and inequalities, factor, and solve a variety of word problem applications.

### Specific Performance Objectives:

At the end of the course the student will be able to:

- Use proper terminology and perform operations on sets.
- Perform operations on signed numbers.
- Solve linear equations and inequalities in one variable.
- Perform operations on polynomials, including beginning techniques of factoring.
- Perform operations with integer exponents.
- Simplify a radical expression.
- Use the Cartesian coordinate system to graph linear equations.
- Solve quadratic equations by factoring.
- Solve word problems involving percents, mixtures, rate-time-distance, investment, and other applications.

### Methods of Evaluation:

Evaluation of student progress towards achieving the stated learning outcomes and performance objectives is the responsibility of the instructor, within the policies of the college and the department. Detailed explanation is included in the expanded syllabus developed by the instructor for each section being taught.