

Math 103—DC College Algebra; 3 credit hours (one semester)
Course Syllabus

INSTRUCTOR: Mrs. Joyce Bennett, Smithton High School, e-mail: jbennett@smithton.k12.mo.us
website: <http://smithton.k12.mo.us> high school/teacher pages/Bennett/College Algebra
school phone: 660 – 343-5318

INSTITUTION GRANTING CREDIT: Central Methodist University

PREREQUISITES: B or higher in Algebra II

COURSE DESCRIPTION: This course focuses on the study of algebraic concepts including linear and quadratic equations, inequalities and systems of equations & inequalities. In addition, polynomial, rational, exponential and logarithmic functions will be emphasized along with their numerical, graphical and algebraic properties and applications. This course prepares students for other courses such as calculus & finite mathematics and helps students develop problem-solving and critical thinking skills.

TEXT: *College Algebra, Fourth edition (2007)*, by Robert Blitzer.

The following topics will be covered:

- Chapter P: Prerequisites: Fundamental Concepts of Algebra
- Chapter 1: Equations and Inequalities
- Chapter 2: Functions and Graphs
- Chapter 3: Polynomial and Rational Functions
- Chapter 4: Exponential and Logarithmic Functions
- Chapter 5: Systems of Equations and Inequalities
- Chapter 7: Conic Sections
- Chapter 8: Sequences, Induction, & Probability

EXAMS, HOMEWORK, QUIZZES: There will be four 200 point exams, each covering two chapters. At the end of the semester there will be a 250 point comprehensive final exam. Students will be responsible for 8 sets of homework each of which will be worth 35 points and 8 reviews worth 15 points each. The student is responsible for completing and understanding every homework assignment, even though they will not be collected until the exam over those sections. All supporting work must be shown on homework. **No late homework will be accepted.** There will be eight 75 point quizzes. At the end of the second quarter the lowest quiz score & homework assignment turned in will be dropped.

ATTENDANCE: Attendance will be taken. 80 points @1/2 point daily will be given for participation. Students are expected to be in class. Students are expected to e-mail instructor for notification of pre-arranged absences. There will be no muting unless requested by instructor. Failure to behave in a mature manner in the classroom may result in dismissal from the course.

CALCULATORS/NOTES: Both scientific calculators and graphing calculators are needed. Students are expected to have basic mastery involving graphing calculators. Graphing calculators will be allowed only on some portions of the exams/quizzes. Notes will be posted on the instructor's website along with homework assignments. Extra study sessions are available by pre-arrangement.

ACADEMIC HONESTY: No copying/sharing of work will be allowed on homework, quizzes, or tests. First offense is a zero on the assignment. Second offense will be removal from course with a grade of F. Refer to CMU Academic Policy for more details.

GRADES will be assigned as follows:

<i>College Credit:</i>		<i>Smithton High School Credit*:</i>		
90—100	A	96—100	A	77--79 C+
80—89	B	90—95	A -	74—76 C
70—79	C	87—89	B+	70—73 C-
60—69	D	84—86	B	67—69 D+
Below 60	F	80—83	B-	64—66 D
				60—63 D-
				Below 60 F

*grading scale for each school site will be used for computation of high school grade.

Percentages will be calculated by taking the number of points earned and dividing by the number of points possible.