

Clarendon College
Pampa Center
Course Syllabus
Math 1314.231 -- College Algebra
Spring 2011
Room 102 - Pampa Center
5:30 PM TR
MKBC 102
3 credit hours

Instructor: Frank Vance

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Office Hours: 9-11 AM MWF, 4-5:30 PM TR, 3:00-4:30 M

By Appointment

Text: Algebra for College Students 6th Edition
Lial, Hornsby and McGinnis , Addison-Wesley

Supplies: Graphing Calculator (prefer TI 83, TI 83Plus, TI 84)
Access to MathXL
Spiral notebook

Purpose of the Course: College Algebra partially satisfies the requirements for the Associates Degree at Clarendon College and is designed for transfer to a senior college.

Course Description: Relations, functions, equations and inequalities, exponents and radicals, mathematical induction, progression, binomial theorem and probability.
Prerequisites: Appropriate TASP scores or consent of the instructor.

Exemplary Objectives: The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real world problems.

1. To apply arithmetic, algebraic, geometric, higher-

- order thinking and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically and symbolically.
 3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
 4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
 5. To interpret mathematical models such as formulas, graphs, tables and schematics, and inferences from them.
 6. To recognize the limitations of mathematical and statistical models.
 7. To develop the view that mathematics is an evolving discipline, interrelated with human culture and understand its connections to other disciplines.

Course Objectives:

Upon successful completion of College Algebra students should be able to

1. Perform operations on and factor polynomials.
2. Graph, solve and apply linear equations.
3. Solve and graph linear inequalities.
4. Give the properties of a line.
5. Solve systems of linear equalities and inequalities.
6. Solve, graph and apply quadratics.
7. Perform operations on and solve rational expressions.
8. Calculate and define ratios and proportions.
9. Define and graph functions.
10. Solve and simplify exponential, radical and logarithmic expressions.
11. Perform operations on and simplify matrices.
12. Define and solve sequences and series, binomial theorem and basic probability.

Methods of Instruction:

1. Reading assignments.

2. Lecture with discussion and examples.
3. Problem assignment.
4. Discussion of problems.

Class Policy;

1. Classroom Conduct: Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to:
 - a. obtaining an examination, classroom activity or laboratory exercise by stealing or collusion;
 - b. discovering the content of an examination, classroom activity, laboratory exercise or homework assignment before it is given;
 - c. using an unauthorized source of information during an examination, classroom activity, laboratory exercise or homework assignment;
 - d. entering an office or building to obtain unfair advantage;
 - e. taking an examination for another person;
 - f. completing a classroom activity, laboratory exercise, homework assignment or research paper for another person;
 - g. altering grade records;
 - h. using any unauthorized form of electronic communication device during an examination, classroom activity or laboratory exercise;
 - i. Plagiarism. Plagiarism is the using, stating, offering or reporting as one's own, an idea, expression or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name and the type of cheating involved. Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

2. **Accommodations Statement:** Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687-9737). We will work with you to make whatever accommodations we need to make.

3. **Withdrawal:** If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a “W” on your transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of “F” on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from The office and has the instructor sign the slip before the 12th class week.

Remember, a student is only allowed to drop the same class twice before he/she will be charged triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6th, he/she will no longer be able to withdraw from any classes.

Drop add Date: Thursday, January 27, 2011

Last day to withdraw with W: Friday, April 15, 2011

Finals: Math 1314.231 – 7 PM , Tuesday, May 10, 2011

Grading Policies:

Grading will be based on a series of chapter tests in Math XL(50%), homework in Math XL and class participation(25%) and a

Comprehensive final exam (25%).

The average from the above will be translated to the letter grade for the course using

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
Below 60	F

Attendance Policy:

Class attendance is NOT optional. More than 3 “unexcused” absence will result in grade deductions of five (5) points from your final class average. If you can not attend a class send an e-mail or leave a voice message to my phone before the next class period, otherwise it is considered “unexcused”.

Course Outline:

Tentatively chapters 2 through 9 and 11 will be covered.
(This is subject to change.)