Course Name: College Algebra  
Credits: 4


Course Description: Equations and inequalities, polynomial functions and graphs, exponents, radicals, binomial theorem, zeros of polynomials, systems of equations, exponential, logarithmic, and inverse functions, applications, and graphs.

Course Objective. This course builds on concepts learned in Basic and Intermediate Algebra and expands those skills. The objective of Math 102 is to prepare students for higher-level math courses by developing conceptual understanding and problem solving skills.

Prerequisites: Acceptable ACT Math score or COMPASS exam score or a grade of C or better in Math 101. Concurrent enrollment in Math 102L is also required. INTEREST and ENTHUSIASM will certainly help you in your course work!!!

Math Progression: From College Algebra, student can expect to take Trigonometry (Math 120) before moving on to Calc 1 (Math 123). Note: you must receive a grade of “C” or better in Math 102 to be able to enroll in Math 120. YOU CANNOT TAKE TRIG (Math 120) and Calc 1 (Math 123) concurrently next semester, regardless of what your Math 102 grade is. It is not possible to retake the Compass Exam to place into Trig. It is also NOT possible to retake the Compass Exam and bypass Trig.

Electronic devices policy and behavior in class: The use of electronic devices such as cell phones, PDA’s, pagers, mp3 players, etc. in class is not acceptable. Turn them off before coming to class. No text messaging in class. Headphones are not allowed. Its fine to use a laptop in this class for purposes of note taking, but the screen must be lowered. No other use of any other electronic/computer media is allowed during class time.

Use of Tablet computers. Tablet computers can only be used in class to take notes. If you choose to take notes with your tablet, you MUST visit with me first.

Eating in class is not permitted, as it is a distraction to others, and can leave a mess for the next class.

Method of delivery: This course meets 3 times each week in a classroom setting. Together, we will use various interactive methods to explore and learn a mixture of algebra tools and techniques. You also need to attend an additional one hour lab session that is listed as Math 102L. This time is designed to present a weekly quiz, and reinforce different concepts presented during the previous week.

Course Evaluation: Your grade for the Lecture section and Lab Section will be IDENTICAL and will be divided as follows: 80% of your grade will come from the 4 major exams, 15% will come from your quiz scores, and the other 5% will come from any graded in-class work or any graded homework that may be assigned.

Labs: Each lab will consist of a quiz, representative homework problems and selected topics from the previous week’s materials. Make-ups are ONLY possible before the main exams. In other words, you cannot make up a lab after the main exam following the lab, for example you cannot make up lab 2 during week 10. All labs will be counted, so it is important to attend all the labs.

D2L I will use D2L to post grades, and to post various course material you should be able to, at any point in the course, to know what you scored on what assignment, and what your current grade is. Point your browser to https://d2l.sdbor.edu/ and follow the prompts to login.
Grades will be assigned following these guidelines:

- **A** 90 to 100
- **B** 80 to 89.4
- **C** 70 to 79.4
- **D** 60 to 69.4
- **F** Below 60

**Student learning outcomes:** As a result of taking a course meeting this goal, students will:

1. Use mathematical symbols and mathematical structure to model and solve real world problems.
   
   *Assessment:* Students will
   
   - Correctly write and use polynomials, rational expressions, exponential expressions, logarithmic expressions, and radical expressions to solve real world problems. This will be demonstrated on in-class problems, labs, homework, quizzes and/or exams.

2. Demonstrate appropriate communication skills related to mathematical terms.
   
   *Assessment:* Students will
   
   - Identify, interpret, and use algebraic expressions and functional notation to solve real world problems. This will be demonstrated on in-class problems, labs, homework, quizzes and/or exams.

3. Demonstrate the correct use of quantifiable measurements of real world situations.
   
   *Assessment:* Students will;
   
   - Evaluate functions involving polynomial, rational, exponential, logarithmic, and radical expressions. This will be demonstrated on in-class problems, labs, homework, quizzes and/or exams.

**Class attendance** is expected. Excessive absence may make it difficult for students to achieve expected levels of performance.

**Exam Makeup.** You must contact me as SOON as possible if you find you have to miss an exam for ANY reason. My contact info is at the top of the syllabus. You may also leave a message at the Math office at 394-2471 if you are unable to contact me.

**Cheating.** If you cheat on a test or assignment, you may fail the course. At the very least, you will get a zero score on that test or assignment. Cheating is worse than doing nothing. Discussing a problem with other students is a valuable learning tool, copying someone else's work is not.

**Freedom in learning.** Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact the department chair to initiate a review of the evaluation.

**ADA statement.** Students with special needs or requiring special accommodations should contact the instructor, Prof. Lofberg, at 394-2448 and/or the campus ADA coordinator, Ms. Jolie McCoy, at 394-1924 at the earliest opportunity.

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**NOTE:** You must receive a C or higher in this class to be allowed to go on to Trigonometry.

After successfully completing Math 102, your next Math course will be Math 120, Trig.

You WILL NOT be able to take trig (Math 120) and Calc (Math 123) concurrently.