

College Algebra, MATH 102 – 3 credits
South Dakota State University
Taught at Lake Area Technical Institute

Instructor: Bob Larson
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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. Other topics selected from sequences, series, and complex numbers.

Instructional Methods: The primary method for instruction will be lecture.

Course Goals: Students will understand and apply fundamental mathematical processes and reasoning.

Student Learning Outcomes: As a result of taking courses meeting this goal, students will:

1. Use mathematical symbols and mathematical structure to model and solve real world problems.
Students will be able to:
 - a. Analyze information and transfer to an algebraic expression or equation.
 - b. Utilize algebraic expressions to solve real-world problems.
2. Demonstrate appropriate communication skills related to mathematical terms and concepts.
Students will be able to:
 - a. Explain common algebraic terms and symbols.
3. Demonstrate the correct use of quantifiable measurements of real world situations.
Students will be able to:
 - a. Interpret graphical representation of real world data appropriately.
 - b. Develop a linear model representing real world data and use this model to make predictions.

Text: *College Algebra*, 5th edition, by Aufmann (required)

Attendance: In Math 102, a student may be absent six (6) hours without penalty. Students should use these six hours wisely. After six hours are missed, a student could be dropped from the class and have to make plans to retake the course at a later time. Under special circumstances such as extended illness, exceptions may be made. School-related absences are not counted in the six hours.

Grading: The course grade will be made up of:

Assignments	25%
Short quizzes	25%
Chapter Tests	40%
Final Test.....	10%
Total = 100%	

The grading scale is:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
59% or below	F

Dishonesty Policy: Any student behaving dishonestly will be dealt with according to the Institute Disciplinary Policy and will meet with the instructor to determine further action. Regarding in-class behavior, students are expected to conduct themselves in a way such that they do not disturb other students during the class.

Special Accommodations: If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please inform me, and make the appropriate arrangements with the school counselor.

Tentative Schedule:

Weeks 1-4Chapter P
Weeks 5-8Chapter 1
Week 9Chapter 6.1-6.2
Weeks 10-13Chapter 2
Week 14Chapter 4.3-4.5
Week 15Final Test

The Final Test date will be announced by the instructor.

Revised: 7/09