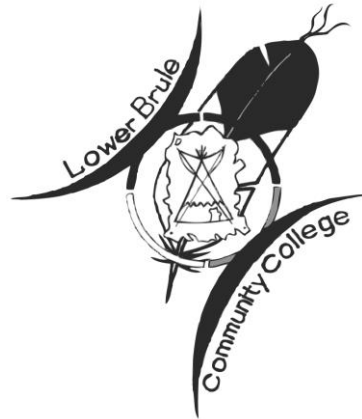


Lower Brule Community College



MA 150, 4 credit hours
Fall, 2017
August 28 - December 8, 2017

COURSE INFORMATION

Location: Lower Brule Community College

SGU's Catalog Description: This course is intended for students needing a terminal course in algebra as well as for those who plan to pursue careers in the sciences. The goal is to provide fundamental algebraic skills and applications necessary for students' individual needs. Topics covered include sets, polynomials, linear and quadratic equations, factoring, rational expressions, and complex numbers.

INSTRUCTOR: Rianna Albers

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Work Phone: (605) 473-5510

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COURSE PREREQUISITE

MA 100 or MA 105

COURSE MATERIALS

Calculator

COURSE DESCRIPTION

Real-number system; arithmetic operations with polynomials, special products and factoring; linear, fractional and quadratic equations; inequalities, exponents, radicals and absolute values; functions and graphs; and complex numbers, logarithms, logarithmic and exponential functions.

COURSE LEARNING OBJECTIVES

Students should be able to:

- Plot points and equations and interpret information using the rectangular coordinate system. (This would include finding equations of lines, parallel lines, and perpendicular lines.)
- Solve linear and rational equations in one variable.
- Use mathematical equations to model real-life problems.
- Perform operations with real and complex numbers.
- Solve quadratic equations by factoring, completing the square, and by the quadratic formula.
- Solve radical equations, equations with rational exponents, and equations involving absolute value.
- Solve inequalities of the same types as in Objective 6.
- Use function notation and identify the domain and range.
- Perform operations on functions including finding the inverse and composition of two functions.
- Use properties and perform operations on logarithmic and exponential functions.
- Solve systems of linear equations in two or three variables.
- Perform partial fraction decomposition of rational expressions.

Solve systems of inequalities and graph the solutions.

INSTRUCTIONAL METHODS

The instructor will attempt to appeal to all kinds of learners as much as possible. This course will be taught through a series of lectures, recitation, group work and online assignments.

COURSE POLICIES

You are responsible for attending class; completing all assignments; reading all assigned text material and participating in group work and other in-class activities. Attendance is expected and attendance records will be kept. Students missing 16 consecutive hours, or 24 hours of total class time, will be dropped from the course by the instructor. If you must miss a class for work or emergency issues, you must make arrangements with the instructor. Your participation grade will include attendance. You should read all the assigned material before coming to class. **Late assignments will not be accepted unless arranged previously (not the day they are due). All cell phones and laptops should be shut off and put away during class time, unless told otherwise.**

ACADEMIC DISHONESTY

Cheating and other forms of academic dishonesty run contrary to the purposes of higher education and will not be tolerated in this course. All forms of academic dishonesty will result in an "F" for the course. Academic dishonesty includes (but is not limited to) plagiarism, copying answers or work done by another student (either on an exam or on out-of-class assignments), allowing another student to copy from you, and using unauthorized materials during an exam.

LATE ASSIGNMENT POLICY

Any work received after the due date will receive an automatic reduction. Ten percent will be deducted each week that the assignments are late.

COURSE EVALUATION

You will be assigned several quizzes, assignments and texts throughout the semester. At the midpoint in the semester and near the end of the semester, I will inform you of your performance at that point.

GRADING SCALE

A: 90-100%

B: 80-89%

C: 70-79%

D: 60-69%

F: Below 60%

You will earn 10 points for each class attended. Perfect attendance would earn you another 100% to factor in to your final grade.

DISCLAIMER: This syllabus is subject to change.

**MA 150, FALL 2017- COURSE SCHEDULE
TENTATIVE SCHEDULE OF TOPICS**

Session	Date	Chapter	Subject	Homework
1	8/30/17		Review Syllabus, Introductions Prerequisites	
2	9/6/17	P	Real Numbers and Their Properties	
3	9/13/17	P	Real Numbers and Their Properties Quiz #1	
4	9/20/17	P	P.2 Integral Exponents and Scientific Notation Quiz #2	
5	9/27/17	1	Equations, Inequalities, and Modeling (1.1, 1.3, 1.4) Quiz #3	
6	10/4/17	1	Equations, Inequalities, and Modeling (1.2, 1.5) Quiz #4	
7	10/11/17		Review/Make-up Day Quiz #5	
8	10/18/17		Exam #1, Session 2-6 (Chapters P & 1)	
9	10/25/17	3	Polynomial and Rational Functions Quiz #6	
10	11/1/17	3	Polynomial and Rational Functions Quiz #7	
11	11/8/17	4	Polynomial and Rational Functions Quiz #8	
12	11/15/17		Exam #2 Session 9-11 (Chapters 3 & 4)	
13	11/22/17		NO CLASS Thanksgiving Holiday	
14	11/29/17	8	Sequences, Series and Probability Quiz #9	
15	12/6/17	8	Sequences, Series, and Probability Quiz #10	
16	12/13/17		Final Exam	