



Course Prefix/Number/Title: MATH 103 – College Algebra

Number of Credits: 4

Course Description:

Relations and functions, equations and inequalities, complex numbers; polynomial, rational, exponential and logarithmic functions and systems of equations.

Pre-/Co-requisites: ASC 93 Algebra Prep III with a grade of C or higher, or appropriate math placement test score

Course Objectives:

Upon completion of the course the learner will be able to

1. Students will demonstrate an understanding of relations and functions.
2. Students will be able to work with equations and inequalities.
3. Students will be able to work with complex numbers.
4. Students will be able to work with rational and polynomial expressions.
5. Students will be successful in working with exponential and logarithmic functions.
6. Students will be able to solve systems of linear equations.
7. Students will create and use matrices to solve systems of equations.

Instructor: Tracy Chisholm

Office: Nelson Science Center, Room 112

Office Hours: MTWF 3-4pm or by appointment

Phone: (701) 228-5424

Email: tracy.chisholm@dakotacollege.edu

Lecture/Lab Schedule: MTWF 10:59-11:44am

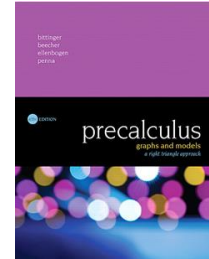
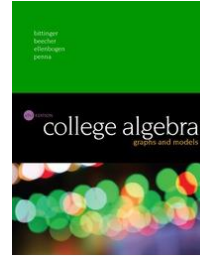
Monday	Tuesday	Wednesday	Thursday	Friday
NSC 105	NSC 105	NSC 105		NSC 105
10:59-11:44am	10:59-11:44am	10:59-11:44am		10:59-11:44am

Textbook(s):

College Algebra: Graphs and Models 5th Edition by Bittinger, Beecher, Ellenbogen and Penna with MyMathLab online learning software. Pearson Publishing.

OR

Precalculus Graphs and Models 5th Edition by Bittinger, Beecher, Ellenbogen and Penna with MyMathLab online learning software. Pearson Publishing.



Course Requirements:

The sequential nature of mathematics deems it necessary for students to attend class on a regular basis, therefore one of the course requirements is regular attendance. Learning algebra is an investment of time. Algebra is learned best by practice, reflect, and practice some more. Understanding the examples provided by the instructor and textbook is a good first step. However, to truly know the material, you should be able to look at a problem, know how to proceed, and carry out the steps **WITHOUT ASSISTANCE**. The independent practice and graded homework provide opportunities for you to get to that point. Passing grades on quizzes and tests demonstrate that you have indeed learned the skills taught.

Homework Assignments: All homework assignments will be done in MyMathLab. These are graded assignments that can be done multiple times. Only the highest score will be used. These assignments close at 11:59 PM, Central Daylight Time on the night before the corresponding chapter test. Do the work well in advance. If the assignment is done after the posted due date, 30% will be deducted from your score.

Tests: Six graded tests are administered over the semester. Students are allowed one attempt on each test and must be completed in one sitting. If a student leaves the classroom during a test, the test will be collected and graded. Tests must be taken on the day they are given or previous arrangements must be made prior to the test day. **If you miss an exam you must contact me within 24 hours of the missed exam to arrange for a time to make up the exam. Exams must be made up within 72 hours of the original exam time. If you do not contact me within 24 hours, a grade of 0 will be entered for the exam that was missed. Students are only allowed to make up ONE exam per course. The exam grade will be docked 10% per day for late points. Cheating on tests will not be tolerated. If you are caught cheating, that will result in an automatic 0 for the exam.**



A = 90-100% B = 80-89% C = 70-79% D = 60-69%

Tentative Course Outline:

Chapter	Topics	Dates
Chapter 1 Sections 1.1-1.6	Graphs, Functions, and Models	Weeks 1-4
Chapter 2 Sections 2.1-2.6	More on Functions	Weeks 4-7
Chapter 3 Sections 3.1-3.5	Quadratic Functions and Equations; Inequalities	Weeks 7-9
Chapter 4 Sections 4.1-4.6	Polynomial Functions and Rational Functions	Weeks 9-12
Chapter 5 Sections 5.1-5.6	Exponential Functions and Logarithmic Functions	Weeks 12-14
Chapter 6 Sections 6.1-6.4, 6.7	Systems of Equations and Matrices	Weeks 15-16

My final is: Friday, December 8

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):

Competency/Goal 3: Demonstrates the ability to solve a variety of mathematical problems

Learning Outcome 1: Utilizes mathematical skills to solve problems

Learning Outcome 2: Employs critical thinking skills to solve problems

Relationship to Campus Focus:

The student will use the graphing calculator to model application problems in nature, economics, science, psychology, etc. Communication with others will be emphasized.

Classroom Policies:

- Attendance and participation is expected. You are responsible for the activities of each class period. If you know of a conflict ahead of time, you are welcome to submit assignments early.
- Show up to class on time and be prepared (pencil, notebook, calculator, etc).
- Cell phones should be off/silenced and put away. Computers and tablets are welcome in the classroom for note-taking purposes only. If students abuse this privilege, the instructor reserves the right to ban computers from the lecture periods.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.