



UNITED TRIBES TECHNICAL COLLEGE

United Tribes Technical College

MTH 103 College Algebra Syllabus

MTH 103 A Spring 2018

Instructor and Class Information

Instructor Name	Derek Schulte
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Phone	701-255-3285 ext 1495
Office Location	Sci & Tech Building Room 220
Section Number	A
Start Date	1/9/2018
End Date	5/4/2018
Meeting Times	Tues, Thurs 10:00-11:50
Location	Sci & Tech Building Room 232

Course Information

Course Number	MTH 103
Course Title	College Algebra

Course Description

This course is designed to introduce the learner to critical thinking and problem solving skills in algebraic concepts, relations and functions, equations and inequalities, complex numbers; polynomial, rational, exponential and logarithmic functions and systems of equations.

Prerequisite: Math 102 or placement test

Total Credits	4.00
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Textbooks

Stitz, Carl and Jeff Zeager. College Algebra. 3rd ed. Lulu, 2011.

Course Objectives

- 1. Solve, simplify and graph equation and inequalities as evidence by classroom activities and objective tests.**
- 2. Simplify and evaluate simple and composite functions as evidenced by classroom activities and objective tests.**
- 3. Demonstrate an ability to simplify and evaluate polynomial, rational, exponential, and logarithmic functions as evidenced by classroom activities and objective tests.**

- Solve a system of linear equations using at least two different methodologies as evidenced by classroom activities and objective tests.**
- Apply current technologies to enhance knowledge of algebraic concepts and principles as evidenced by classroom activities.**

Instructor Grading Information

Students' grades will be based on four equally weighted tests (60%), homework (20%), and a writing assignment (20%), weighted according to the percentages given. Late homework will not be accepted, however the two lowest homework scores will not be counted in the calculation of your final grade.

1.Grading Scale

Grade	Percentage
A	90-100%
B	80-89%
C	70-79%
D	60-69%
Failing	Below 60%

2.Communication

All students are required to regularly check their MyUTTC account to obtain information on course assignments, detailed instructions, and announcements. Students are expected to check their student account regularly for any updates or coursework changes. It is important to provide the instructor and/or academic advisor with your current email address, phone numbers and alternate contact information. Class cancellations, emergency information, or other announcements can be conveyed in a timely manner if we have your current contact information.

3.Attendance Policy

Attendance and completion of assigned readings is the equivalent of participation since your ideas and your work with classmates contribute to everyone's understanding and achievement. Significant tardiness will be considered an absence. If you arrive late, you may be considered absent for that class period.

Every student is responsible for obtaining the necessary information required in the event of an absence. It is the student's responsibility to contact one of their peers to obtain information concerning assignments, handouts, and any changes or announcements.

Student grades will be impacted by the frequency and quality of participation in class.

4.Policy for Late Submission

Each student is responsible for obtaining the necessary information required in the event of an absence. It is the student's responsibility to contact one of his or her peers to obtain information concerning assignments, handouts, and any changes or announcements.

The assignments and course requirements (homework) must be completed by the due date and are collected at the beginning of the class period. If an assignment is not handed in at the beginning of the class period, it is

considered late. Late work will not receive full credit if it is accepted at all. All late work (if prior arrangements have been approved by the instructor) must be personally handed to the instructor. The amount of points deducted for late work is at the discretion of the instructor.

5.Cell Phone

Out of respect for the other students and the instructor, it is advised that cell phones are turned off during class times. If the student is expecting an important phone call (e.g. case worker, Housing, clinic), the instructor must be informed ahead of time and the cell phone set to a silent ring. If such a phone call is received during class time, the student will answer the call by quietly removing him or herself from the classroom. This also includes texting during class; it is not acceptable. Students may not use class time to check social media accounts, voicemail, and/or personal emails.

6.Student Behavior

UTTC students will conduct themselves in a responsible and respectful manner at all times in the classroom, in the hallways, in the Library, the Cafeteria, and any other location on campus. Student behavior that interferes with learning in the classroom will not be tolerated. This behavior includes chronic tardiness, threatening confrontations, intoxication, inappropriate physical contact, lewd or disrespectful language or gestures directed at the instructor or at fellow students, bullying, direct or indirect intimidation, and conversations with other students that are not related to classroom topics.

Faculty are expected to maintain professional management of classroom activities prior to, during and after class times. As such, if a student demonstrates behavior that disrupts or interferes with classroom activities, an instructor reserves the right to ask the student to leave the classroom, to contact campus security, to request mediation by the academic department chair or an academic/personal counselor, or to file a formal complaint subject to a student disciplinary hearing.

7.Plagiarism and Academic Integrity

Plagiarism is the term for taking credit for work that is not your own. This means you cannot take material from articles, books or websites you find in the library and present it as your own work; you cannot let your friends prepare your assignments for you; and you cannot copy an assignment from a student who took the same course in another semester. Plagiarism is taken seriously because this is a place for learning and new ideas; your assignments are evidence of your learning, your original ideas.

Providing work that is not your own, or that is not unique to the assignment, is inappropriate as a form of dishonesty. The consequences of plagiarism are serious: you will be given an F on the specific assignment, or the entire course, at the instructor's discretion. If you need advice on how to appropriately cite the work of others, please ask. As long as you acknowledge an idea is not your own, and provide the original source, it is generally not plagiarism.

Examples of violations of academic integrity are lying about the reason for an absence, or signing someone else's name to a sign-in sheet when they were not present. Please keep in mind that students generally ask their instructors for recommendations, whether for jobs or for scholarships.

8.Students with Disabilities

United Tribes Technical College recognizes its responsibility for making reasonable accommodations to ensure there is no discrimination on the basis of a disability. The Disabilities Services Office coordinates reasonable accommodations, support services, and appropriate referrals for the purpose of removing barriers and providing an equitable learning environment. If you have a disability, please contact the Disabilities

Services (DS) office located in the Education Building Room 123 and speak to the DS Coordinator. The Coordinator can also be reached at (701) 255-3285, ext. 1516.

Class Schedule

Date/Session	Topics
Week 1	Intro to class; Ch. 1 – Coordinate plane and graphing equations
Week 2	Ch. 1 – Functions and their notation, Combining functions, Graphing functions
Week 3	Ch. 1 – Transformations; Ch. 2 – Linear and absolute value functions
Week 4	Ch. 2 – Quadratic functions; Test #1
Week 5	Ch. 2 – Inequalities with absolute value and quadratic functions; Linear regression; Ch. 3 – Graphing polynomials
Week 6	Ch. 3 – Zeros of polynomials, Complex numbers
Week 7	Ch. 4 – Introduction to and graphs of rational functions
Week 8	Ch. 4 – Rational inequalities; Test #2
Week 9	Ch. 5 – Function composition and inverse functions
Week 10	Spring Break
Week 11	Ch. 6 – Introduction to exponential and logarithmic functions and properties of logarithms
Week 12	Ch. 6 – Exponential and logarithmic equations and applications
Week 13	Ch. 7 – Circles; Test #3
Week 14	Ch. 8 – Solving systems of linear equations
Week 15	Ch. 8 – Matrix arithmetic and applications
Week 16	Ch. 8 – Determinants and Cramer's rule, Partial fraction decomposition
Week 17	Test #4