

MATH 1130 - College Algebra
3 Credit Hours**Course Description:**

This course is designed primarily for students majoring in non-science degrees.

The topics studied in this course include:

- functions and graphs
- linear and quadratic equations
- inequalities
- polynomials
- rational expressions
- exponents
- radicals
- exponential and logarithmic functions.

Course Objectives:

As a result of successfully completing this course, students will have demonstrated an acceptable level of mastery of basic concepts and principles of algebra and an understanding of mathematical logic necessary to apply these concepts and principles to problem solving. Acceptable mastery of the course contents will indicate an algebra background necessary to pursue further coursework in mathematics except coursework for mathematics or science majors.

Prerequisites and Corequisites:

An acceptable placement score, completion of Learning Support Math competencies, MATH 1000 with a grade of C or better, or MATH 1005 with a grade of C or better. This course may not substitute for MATH 1710.

Course Topics:

Algebraic Expressions and Real Numbers, Exponents and Scientific Notation, Radicals and Rational Exponents, Polynomials, Factoring Polynomials, Rational Expressions, Linear Equations and Rational Equations, Models and Applications (Linear), Complex Numbers, Quadratic Equations, Other Types of Equations, Linear Inequalities and Absolute Value Inequalities, Functions and their Graphs, Linear Functions and Slope, Transformations of Functions, Combinations of Functions, Composite of Functions, Inverse Functions, Distance and Midpoint Formulas, Quadratic Functions, Exponential Functions, Logarithmic Functions, Properties of Logarithms, Exponential and Logarithmic Equations, Modeling with Exponential Growth and Decay.

Specific Course Requirements:

Be able to use the email and the discussion components of Desire2Learn.

Required Textbooks:

Please visit the [Virtual Bookstore](#) to obtain textbook information for this course. Move your cursor over the "Books" link in the navigation bar and select "Textbooks & Course Materials." Select your Program, Term, Department, and Course; then select "Submit."

Hardware and Software Requirements:

Minimum hardware requirements can be found [here](#).

Minimum software requirements can be found [here](#).

Common applications you might need:

To read a PDF file download the latest version of [Adobe Reader here](#)

Don't have Microsoft Word? Explore an alternative [OpenOffice here](#)

Accessing a PowerPoint file? Download the [PowerPoint Viewer here](#)

Web Resources:

The Everyday Writer

The Writing Center [Online Writer's Handbook](#)

Instructor Information:

Please see the separate page inside the course to find instructor contact information as well as a statement of virtual office hours and other communication information. You can expect to receive a response from the instructor within 24-48 hours unless notified of extenuating circumstances.

Testing Procedures:

The Midterm and Final Exam are proctored in a TBR Testing Center at a TBR University of Community College.

Grading Procedures:

Assignments	Points
Media Assignments (Lectures) 26 @ 1 point each	26
Homework 26 - each varies according to the number of problems	
• Participation - each HW and HW	175

Checkpoint completed by deadline earns 5 points	
• HW Checkpoints 9 - each varies according to the number of problems	
Quizzes 4 - each 100 points	400
Midterm Review	100
Midterm Exam	100
Final Exam Review	100
Final Exam	100

Homework (includes HW Checkpoints) - 10%

Quizzes (include midterm & final review) - 20%

Participation - 10%

Midterm Exam - 30%

Final Exam - 30%

Grade Calculation

$.10 \text{ (HW Avg.)} + .20 \text{ (Quiz Avg.)} + .1 \text{ (Participation Avg.)} + .3 \text{ (Midterm)} + .3 \text{ (Final Exam)}$

Grading Scale:

A	90-100
B	80-89
C	70-79
D	60-69
F	<60

Assignments and Projects:

Assignments

These are your videos or interactive animations. You must watch the videos/animations before you will have access to your homework assignments.

Homework

You must score 85% on homework before you can go to the next homework assignment. Missed problems can be re-worked for credit.

Homework Checkpoints

These are similar to homework assignments. Missed problems can be re-worked for credit.

Quizzes

These are similar to Chapter Tests. If you have to use your notes on Quizzes you are not prepared for the material and you are not prepared to take the midterm or final.

Midterm Review Quiz

Prepares you for the Proctored Midterm Exam. The Midterm Review Quiz is part of your Quiz average.

Midterm Exam

Proctored means you go to a TBR University or Community College to their Test Center and take the test. The test is password proctored. The proctor will type in the password for you. You can use scrap paper and calculator. Please turn in any scrap paper that used.

Final Exam Review Quiz

Prepares you for the Proctored Midterm Exam. The Midterm Review Quiz is part of your Quiz average.

Final Exam

Proctored means you go to a TBR University or Community College to their Test Center and take the test. The test is password proctored. The proctor will type in the password for you. You can use scrap paper and calculator. Please turn in any scrap paper that used.

Participation

The deadlines in the Checklist are suggested deadlines. For every homework and HW Checkpoint that you complete by the suggested deadline, you will receive five points. These points make up your participation average. The very last day you can work on a homework or HW Checkpoint is the day before the quiz. There will not be any extensions on assignments.

Class Participation:

You are expected to participate in all interactive aspects of the course. You are expected to communicate with your instructor on a regular basis and check the course frequently for announcements. You must actively participate in threaded discussion events. Students are expected to work at a pace conducive to collaborative learning - that is, don't work too far ahead or too far behind the group. The class is designed to support student interaction. You will be responsible for meeting all deadlines.

Late Policy:

Deadlines are placed on homework, HW Checkpoints, quizzes, proctored midterm, and the proctored final. You should become familiar with the Class Calendar and Checklist to determine when materials are due and adjust your study schedule accordingly. Once a deadline has passed you will be "locked out" of the material. Please use the checklist to see what is due each week.

Course Ground Rules:

The following two statements (1., 2.) were derived from the TBR System-wide Student Rules document, released January 2012: These rules are kept by the Secretary of State.

RULES OF THE TENNESSEE BOARD OF REGENTS STATE UNIVERSITY AND
COMMUNITY COLLEGE SYSTEM OF TENNESSEE SYSTEMWIDE STUDENT RULES
CHAPTER 0240-02-03 STUDENT CONDUCT AND DISCIPLINARY SANCTIONS

[Read the document in its entirety here.](#)

Standards of Conduct:

- Students are required to adhere to the same professional, legal and ethical standards of conduct online as on campus. In addition, students should conform to generally accepted standards of "netiquette" while sending e-mail, posting comments to the discussion board, and while participating in other means of communicating online. Specifically, students should refrain from inappropriate and/or offensive language, comments and actions.

Academic Integrity/Academic Honesty:

- In their academic activities, students are expected to maintain high standards of honesty and integrity. Academic dishonesty is prohibited.

Such conduct includes, but is not limited to:

- an attempt by one or more students to use unauthorized information in the taking of an exam, to submit as one's own work, themes, reports, drawings, laboratory notes, computer programs, or other products prepared by another person,
- or to knowingly assist another student in obtaining or using unauthorized materials.

Plagiarism, cheating, and other forms of academic dishonesty are prohibited.

Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are subject to disciplinary action through the regular procedures of the student's home institution.

In addition to other possible disciplinary sanctions that may be imposed, the instructor has the authority to assign an "F" or zero for an activity or to assign an "F" for the course.

Other Course Rules:

Students are expected to:

- Participate in all aspects of the course
- Communicate with other students
- Learn how to navigate in D2L
- Keep abreast of course announcements
- Use the assigned course management (D2L) email address rather than a personal email address
- Address technical problems immediately by contacting 1-888-223-0023 or help@tnecampus.info.
- Observe course netiquette at all times.

Guidelines for Communications:**Email:**

- Always include a subject line.
- Remember without facial expressions some comments may be taken the wrong way. Be careful in wording your emails. Use of emoticons might be helpful in some cases.
- Use standard fonts.
- Do not send large attachments without permission.
- Special formatting such as centering, audio messages, tables, html, etc. should be avoided unless necessary to complete an assignment or other communication.
- Respect the privacy of other class members

Discussions:

- Review the discussion threads thoroughly before entering the discussion. Be a lurker then a discussant.
- Try to maintain threads by using the "Reply" button rather starting a new topic.
- Do not make insulting or inflammatory statements to other members of the discussion group. Be respectful of other's ideas.
- Be patient and read the comments of other group members thoroughly before entering

your remarks.

- Be cooperative with group leaders in completing assigned tasks.
- Be positive and constructive in group discussions.
- Respond in a thoughtful and timely manner.

Library:

The [Tennessee Virtual Library](#) is available to all students enrolled in a TN eCampus course. Links to library materials (such as electronic journals, databases, interlibrary loans, digital reserves, dictionaries, encyclopedias, maps, and librarian support) and Internet resources needed by learners to complete online assignments or provide background is included in all courses.

Students with Disabilities:

Qualified students with disabilities will be provided reasonable and necessary academic accommodations if determined eligible by the appropriate disability services staff at their home institution. Prior to granting disability accommodations in this course, the instructor must receive written verification of a student's eligibility for specific accommodations from the disability services staff at the home institution. It is the student's responsibility to initiate contact with their home institution's disability services staff and to follow the established procedures for having the accommodation notice sent to the instructor.

Syllabus Changes:

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes both by individual email communication and posting both notification and nature of change(s) on the course bulletin board.

Technical Support:

Please visit the "Get Help" page in the Getting Started Module of this course to find technical support information. If you are having problems logging into your course, timing out of your course, using your course website tools, or other technical problems, please contact the Help Desk at 1-888-223-0023 or help@tnecampus.info.

Disclaimer

The information contained in this syllabus is for general information purposes only. While we endeavor to keep this information up-to-date and accurate, there may be some discrepancies between this syllabus and the one found in your online course. The syllabus of record is the one found in your online course. Please make sure you read the syllabus in your course at the beginning of the semester. Questions regarding course content should be directed to your instructor.