MAT 101

MAT 101 Beginning Algebra

Course Description
This course includes the study of rational numbers and their applications, operations with algebraic expressions, linear equations and applications, linear inequalities, graphs of linear equations, operations with exponents and polynomials, and factoring.

Prerequisite: MAT 032, MAT 012, RDG 032, RDG 012.

3.0 Cr (3 lect/pres, 0 lab, 0 other)

Course Focus
Students will be presented with the objective. Students will then practice problems using the objective.

Text and References:

MAT 101 CORE CURRICULUM COMPETENCIES

All courses approved for the general education core curriculum help students develop communication skills and/or critical thinking.

This course develops communication skills, as demonstrated by the following:
- Graph linear equations and linear inequalities
- Interpret the graphs, and explain their properties using appropriate, clear, and precise mathematical symbols and terminology.
- Interpret and explain solutions of linear equations and real world problems as well as systems of equations using appropriate, clear, and precise mathematical symbols and terminology.

This course develops critical thinking skills, as demonstrated by the following:
- Solve linear equations using mathematical principles in a logical process.
- Solve systems of equations using various mathematical methods including elimination, substitution, and graphing, in a logical process.
- Apply mathematical principles in a logical process to solve real world problems involving polynomial functions

Course Goals
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives.

1. Classify number sets
2. Compare numbers
3. Determine absolute value
4. Graph rational numbers
5. Add real numbers
6. Subtract real numbers
7. Multiply real numbers
8. Divide real numbers
9. Apply properties of real numbers *
10. Simplify expressions *
11. Evaluate an expression *
12. Evaluate values with exponents
13. Translate sentences to equations
14. Operate real number subsets
15. Translate word phrases *
16. Understand structure algebra
17. Combine like terms
18. Use formulas
19. Solve linear equations *
20. Solve linear inequalities *
21. Determine if an equation is linear
22. Identify linear equation x intercept
23. Identify linear equation y intercept
24. Plot coordinates plane points
25. Graph linear equations *
26. Find linear equation solutions
27. Find linear equation slope
28. Graph linear inequalities
29. Introduce polynomial operations *
30. Add polynomials
31. Subtract polynomials
32. Multiply polynomials
33. Evaluate expressions with negative exponents
34. Divide polynomials
35. Breakdown greatest common factor
36. Breakdown groups
37. Factor trinomials *
38. Factor special products *
39. Solve quadratic equations by factoring *
Student Contributions
Students will complete homework after each unit from the text and/or through online service.

Course Evaluation
Your final grade will be obtained from the average of your Homework, Unit quizzes, Unit tests, and Final Examination.

The grading scale is as follows:
90 - 100 = A
80 - 89 = B
70 - 79 = C
60 - 69 = D
Below 60 = F

Course Schedule
The class meets for 2.5 lecture/presentation hours per week.

ADA STATEMENT
The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

ACADEMIC MISCONDUCT
There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student’s responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the TCL Student Handbook, the Division Office, and the Learning Resources Center.

ATTENDANCE
The College’s statement of policy indicates that students must attend ninety percent of total class hours or they will be in violation of the attendance policy.

- Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
- Students taking an online/internet class must sign in and communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students not attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
- Reinstatement requires the signature of the division dean.
- In the event it becomes necessary for a student to withdraw from the course OR if a student stops attending class, it is the student’s responsibility to initiate and complete the necessary paperwork. Withdrawing from class may have consequences associated with financial aid and time to completion.
• When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor MUST withdrawal the student with a grade of “W”, “WP”, or “WF” depending on the date the student exceeded the allowed absences and the student’s progress up to the last date of attendance or
• Under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.
• Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.
  ▪ A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.
  ▪ A copy of TCL’s STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

HAZARDOUS WEATHER
In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLH 101.1, WSO 1230 AM, WAEV 97.3, WTCV, WTGS, WJWJ, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. [Website Link]

EMERGENCY TEXT MESSAGE ALERT
Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. Participants receive immediate notification of emergency events and weather cancelations via text messaging on their cell phones. Participants can also opt in to receive non-emergency news and announcements. Go to [Website Link]. On the homepage, click on “emergency TextAlert at TCL” and fill out the form or go to [Website Link]

GRADING METHODOLOGY
The final grade must be 70 or more in order to pass the course and progress in the program. Students absent from an examination or presentation will receive a “0” grade for the examination unless other arrangements are made with the individual instructor prior to the examination or presentation day or on the examination or presentation day before the test/presentation is scheduled to be given.

The student is responsible for notifying the instructor for the reason of the absence. It is also the responsibility of the student to contact the appropriate instructor to arrange to make up the examination. Arrangements may be completed by telephone.

If the instructor is not available, a message should be left on the instructor’s voice mail AND with another member of the faculty or administrative assistant. The make-up exam will be scheduled and the instructor will decide the method of examination. Messages sent by other students are unacceptable.

Revised: 05/26/2013

Reviewed/Approved by Dean of Arts & Sciences 05/26/2013