MAT 032

Developmental Mathematics

Course Description
This course includes a review of arithmetic skills and focuses on the study of measurement and geometry, basic algebra concepts, and data analysis. Application skills are emphasized.

Prerequisite: A minimum math score of 30 on ASSET or a minimum pre-algebra score of 16 on COMPASS. Class must be taken in conjunction with workshops.

These credits do no apply toward graduation.

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

Course Focus
This course is designed to help students gain a solid understanding the basics of arithmetic, percents, measurement, algebra, geometry, and data analysis. Students will work with the instructor to uncover the "how" and the "why" behind each of these concepts. Participation is encouraged during class meetings.

Text and References

Students will also need to purchase a calculator (TI-30 is recommended)

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<th>MAT 032 Core Curriculum Competencies</th>
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<td>This course develops communication skills, as demonstrated by the following:</td>
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<td>• Interpret and explain solutions of whole number, fraction, decimal, and percent problems and real world problems using appropriate, clear, and precise mathematical symbols and terminology.</td>
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<td>• Interpret and explain solutions to one and two step algebra equations</td>
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<td>This course develops critical thinking skills, as demonstrated by the following:</td>
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<td>• Apply mathematical principles in a logical process to solve real world problems involve whole numbers, fractions, decimals, percents, geometry.</td>
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Course Goals
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

1. Identify place value
2. Add whole numbers
3. Subtract whole numbers
4. Multiply whole numbers
5. Divide whole numbers
6. Use correct order-of-operations
7. Find LCM, GCF
8. Order fractions
9. Reduce fractions
10. Add fractions
11. Subtract fractions
12. Multiply fractions
13. Divide fractions
14. Change decimals
15. Add decimals
16. Subtract decimals
17. Multiply decimals
18. Divide decimals
19. Recognize variables
20. Recognize like terms
21. Use distributive property
22. Evaluate algebraic expressions
23. Solve algebraic equations
24. Calculate unit rate
25. Solve proportions
26. Change percents
27. Solve percent problems
28. Sequence signed numbers
29. Find absolute value
30. Add signed numbers
31. Subtract signed numbers
32. Multiply signed numbers
33. Divide signed numbers
34. Calculate mean
35. Calculate mode
36. Find median
37. Find range of numbers
38. Analyze basic bar graph
39. Analyze basic histogram
40. Analyze circle graph
41. Analyze line graph
42. Analyze simple pictograph
43. Convert us measures
44. Identify geometric figures
45. Convert metric measures
46. Calculate quadrilateral perimeter
47. Find triangle perimeter
48. Calculate quadrilateral area
49. Find triangle area
50. Find circle circumference
51. Calculate circle area
52. Differentiate different angles
53. Find angular measure
54. Compute complimentary angles
55. Find geometric object volume

Student Contributions
A minimum of 6 hours per week should be spent outside of class to practice and prepare for the material uncovered in the course.

The attendance policy for this course is consistent with TCL’s attendance policy found in the student handbook.

In order to take the final exam, a student must have an overall average of 70%.

Any student with a final grade below 70% will receive a grade of NC (No Credit) and will be required to return to Developmental Mathematics in a future semester.

A student is allowed to take at most 3 classes of Developmental Mathematic. Any student who does not receive a passing grade after 3 attempts will be placed on Academic Probation.

Course Evaluation

Evaluation for this course will come from 3 components: Homework, Unit Tests, and the Final Exam.

Homework will account for 25% of the course grade.
Unit Tests (11) will account for 50% of the course grade.
The Final Exam will account for 25% of the course grade.

Make-up tests are not given; rather, the grade earned on the final exam will replace the first unit test missed. Other tests that are missed will receive a grade of zero (0).

Students must earn a minimum score of 70% to pass this course and continue with his/her math sequence.

Current grade for this course can be found on the Course Compass website under your login.

Course Schedule
The class meets for 3 lecture/presentation hours per week. The sequence of this course will follow the sequence of course objectives listed above. We will cover approximately 14 objectives per week.

Developed/Revised: January 29, 2010
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, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. www.tcl.edu/textalert.asp

EXTRA:

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 www.tcl.edu. On the homepage, click on “emergency TextAlert at TCL” and fill out the form or go to www.tcl.edu/textalert.asp

GRADING METHODOLOGY
The final grade must be 70 or more (a grade “C” or better) in order to pass the course and progress to the next course. 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.