

Technical College of the Lowcountry
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BUS 140 BUSINESS MATH

COURSE DESCRIPTION

This course covers applications of business mathematics in the study of discounting, marking up, inventory, and insurance. Other topics may include payroll and commission computations, introduction to stocks and bonds, and other accepted business practices.

3 Credits

Prerequisite: Mat 032

COURSE FOCUS

The focus of the course is to provide the student with the tools needed to solve mathematical problems that will be encountered in everyday business transactions and in personal life.

TEXT AND REFERENCES

Business Math Brief Edition, Ninth Edition, Pearson Prentice Hall, Bundled with MyMathLab access code
ISBN: 9780132111744

COURSE GOALS

The following list of course goals will be addressed in the course.

1. record checking account transactions
2. make checking account transactions
3. reconcile a bank statement with an account register
4. solve equations using addition, subtraction, multiplication or division
5. solve equations containing multiple unknown terms
6. solve equations containing parentheses
7. solve equations that are proportions
8. use the problem-solving approach to analyze and solve word problems
9. evaluate a formula
10. find an equivalent formula by rearranging the formula

11. write a whole number ,fraction, or decimal as a percent
12. write a percent as a whole number, fraction, or decimal
13. solve percentage problems
14. find the mean, medium and mode
15. find the range
16. calculate trade discounts
17. apply a trade discount series
18. compute a single discount equivalent
19. compute a cash discount
20. interpret and apply end-of-month terms
21. find the cost, markup and selling price
22. compute product markups and markdowns
23. calculate gross pay
24. calculate payroll deductions
25. determine employer's payroll taxes
26. calculate simple interest
27. calculate ordinary and exact interest
28. understand installment loans
29. determine finance charges for installment loans
30. use interest refund rule 78
31. calculate compound interest
32. find future and present value
33. find fair value of annuities
34. determine monthly mortgage payments
35. compute the total interest on a mortgage
36. read stock listing
37. calculate & distribute dividends
38. read mutual fund listing
39. read bond listing
40. calculate price of bonds
41. calculate return on investment
42. use % method to find sales tax
43. find the marked price and sales tax from the total price
44. prepare balance sheet
45. prepare income statement

STUDENT CONTRIBUTION

Each student will spend at least 6 hours per week preparing for class. Students will complete assignments, quizzes, and exams either on paper or online with MyMathLab.

COURSE EVALUATION

This class will have test, quizzes, and homework during the course. Each test will be based on textbook assignments, lecture material, and classroom discussions from the period preceding the exam. Grades will be earned as follows: A=90 to 100, B=80 to 91, C=70 to 79, D=65 to 69.

Grading Policy

NOTE: Each student must earn a 75% score on his/her computerized homework to be eligible to take each chapter test.

Test Score Average	65%
Homework	25%
Quiz	10%

COURSE SCHEDULE

This course is offered on-line, or as a hybrid class. Course assignments can be found on Blackboard and by using the web-based Mymathlab. Course content will be taught in the order that can be found on the syllabus addendum – tentative schedule. Test/Quizzes will be a combination of written and web-based using Blackboard and/or Mymathlab.

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** withdraw 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

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

SYLLABUS SAFETY ADDENDUM

Purpose.

The purpose of this safety addendum is to provide each student with safety guidelines during an incident, emergency, or disaster at TCL. In addition, it provides students guidelines for lockdown procedures, evacuation procedures, and active shooter.

Definitions

An incident is any event, potential or actual, that may impact normal operations but has no immediate health or life threatening consideration or serious effect on the overall functional capacity of the College. An event of this nature should be reported to the Office of the Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

An emergency is any incident, potential or actual, which may endanger life or health or which affects an entire building or buildings, and will disrupt the overall operations of the College. Outside emergency services will probably be required, as well as major efforts from campus support services. Major policy considerations and decisions will usually be required from the college administration during times of crises. An emergency should be reported immediately by directly using **911** if life or health/injury considerations exist and then to the Office of the President or Vice President for Administrative Services as quickly as possible. Also notify the off-site campus administrator if applicable.

A disaster is any event or occurrence that has taken place and has seriously impaired or halted the operations of the College. In some cases, mass personnel casualties and severe property damage may be sustained. A coordinated effort of all campus-wide resources is required to effectively control the situation. Outside emergency services will be essential. In all cases of disaster, an Emergency Control Center will be activated, and the appropriate support and operational plans will be executed. The disaster should be immediately reported, first by calling **911** and then to the Office of the President or Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

Types of Emergencies

- Hurricane
- Tornado
- Fire
- Biochemical or Radiation Spill
- Explosion/Bomb
- Downed Aircraft (crash which directly impacts campus operations)
- Utility Failures
- Violent or criminal behavior
- Psychological Crisis

Procedures

Active Shooter

Run/hide/fight (<http://www.fbi.gov/about-us/cirg/active-shooter-and-mass-casualty-incidents/run-hide-fight-video>)

Building Evacuation

1. Building evacuations occur when an alarm sounds and/or upon notification by Security or the Emergency Director.
2. When the building evacuation alarm is activated during an emergency, individuals should exit according to the building evacuation plan and alert others to do the same.
3. Once outside, individuals should proceed to a clear area that is at least 500 feet away from the affected building. Streets, fire lanes, hydrant areas and walkways should be kept clear for emergency vehicles and personnel.
4. Individuals should not return to an evacuated building unless told to do so by Security or the Emergency Director.
5. Individuals should assist persons with disabilities in exiting the building. Elevators are reserved for disabled persons

Campus Evacuation

1. A uniformed Security Guard, the Emergency Director, or an Emergency Resource Team member will announce evacuation of all or part of the campus grounds.
2. All persons (students and staff) are to immediately vacate the campus, or in the case of a partial evacuation relocate to another part of the campus grounds as directed.

Lockdown

1. Clear the halls
2. Report to the nearest classroom/office
3. Assist those needing special assistance
4. Ensure classroom/office doors are closed and locked
5. Turn off lights
6. Stay away from doors and windows (out of the line of sight)
7. BE QUIET and follow instructor's directions
8. Silence cell phones
9. Wait for the "All Clear" before leaving

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