

Business 50 – Business Mathematics

(Section 70)

Distance Learning Spring Semester 2008

Instructor: Tony S. Robertson

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Office hours: M – Th 10:00 – 11:30 A.M., and by scheduled appointment.

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Prerequisites

Eligibility for Math 50 is strongly recommended.

Course Description

Use of arithmetic functions with emphasis on business applications is the focus of this course. Special attention is given to equations and their applications to business problems.

Course Objectives

By the end of the course, a successful student will have learned and be able to:

1. Demonstrate knowledge of business practices.
2. Solve business related problems utilizing mathematical tools with heavy emphasis on the use of algebraic equations.

Required Materials

Text: Graves, Virginia H., Roueche, Nelda W., and Tuttle, Michael D., *Business Mathematics A Collegiate Approach*, 9th ed., Prentice Hall.

Evaluation

1. Computational and/or non-computational problem solving, which include written demonstrations of homework problems and laboratory reports.
2. Chapter and final exams.

Grading

Your grade will be calculated on a total point system. There will be 750 points possible for the semester, allocated in the following manner;

1. Homework assignments, 250 points
2. Unit exams 300 points
3. Final Exam 200 points

Homework: Homework will be graded on a credit/no-credit basis. Homework will consist of problems from questions located at the end of each chapter. To receive credit a student must complete at least 95% of the assigned problems which include writing out the original problem as well as showing all steps necessary to solve the problem. Each completed assignment is worth 20 points. If the problem to be solved is a word problem the first three sentences are to be written out and any numbers given within the problem are to be labeled (i.e., cost, profit, overhead etc...). Failure to meet these criteria will result in a score of no credit. Late homework will be accepted but with a 50% penalty. Home work is due the first day of the week succeeding the completion of a chapter (e.g. the homework from chapter 1 is due the Monday beginning week two, 02/04/2008 and so-on). If you receive full credit there will be a check mark at the top of the paper. Late homework or home work that originally received no credit but is reworked to meet the aforementioned criteria will have a check mark followed by a minus sign signifying one-half credit. There are two options for turning in completed assignments. First, assignments can be mailed to my attention at Taft College, 29 Emmons Park Dr., Taft, CA, 93268. If you choose this option, the postmark must be on or before the assignment due date to receive full credit. The other option for turning in assignments is using the LRC located in the Taft College library. If you choose the option to mail in your assignment and would like your assignments returned, please include a self addressed stamped envelope. Assignments will be returned within 7 days of receipt.

Exams and Final Exam: There will be three unit exams that will cover Parts 1, 3 and 4 of the text. The format of the exams will consist of multiple-choice, true/false and computational problems. The exams are *not* directly cumulative and will consist of questions from each individual unit. The final exam **will be cumulative**; thus, it will contain all chapters covered during the semester. The exams are designed to take 90 minutes to complete, please make arrangements so that you will have the necessary time to complete the exam once it has been started.

Statement of Academic Integrity

The administration, faculty and staff at Taft College believe that students are entitled to the finest education that the college can provide. At the same time, a student's achievement must include the realization that there are standards of academic honesty that must prevail. Each student should exert every effort to maintain these standards.

Academic dishonesty is defined by this college as any illegitimate act by any student, such as plagiarism or falsifying documents that would gain that student an advantage in grading, graduating from the college, or qualifying for entrance into any academic program. It is a serious breach of student conduct and will be treated as such by administrators, instructors, staff members, and students of the college. Penalties for such conduct, depending on its severity, may range from a simple reprimand to actions that result in expulsion from the college. All flagrant instances of academic dishonesty will be reported to the Vice President of Instruction and/or the Vice President of Student Services, and appropriate measures will be taken by those officers of the college to correct the problem.

ADA Statement

Students who believe they may need accommodations in this class are encouraged to contact Student Support Services (661) 763-7927 as soon as possible to better ensure such accommodations are implemented in a timely fashion.

Classroom conduct

Class will be conducted according to the Standards of Student Conduct policies prescribed by Taft College. Please review the student conduct policies as stated in the catalogue.

Course Scope and Content

Date	Topic and Reading	Objectives	Homework Assignments	Due date(s)
Week 1 (1/28 – 2/01)	Introduction Unit I - Basics Review of operations <ul style="list-style-type: none"> • Read chapter 1 	<ul style="list-style-type: none"> • Define and use correct terminology • Multiply efficiently • Simplify expressions containing parenthesis • Round off numbers to a specific decimal place 	Pg(s) 14-15 #’s 1- 11 odd Pg 20 #6 A-G	Ch. 1 Homework 2/04/2008
Week 2 (02/04 – 2/08)	Using equations <ul style="list-style-type: none"> • Read chapter 2 	<ul style="list-style-type: none"> • Solve basic equations • Express numbers in ratios 	Pg 29 #’s 17-35 odd Pg 36 #’s 25-35 odd Pg 40 #’s 1-9 odd	Ch. 2 Homework 2/11/2008
Week 3 (2/11 – 2/15) Note: 2/15 is a holiday	Review of percent <ul style="list-style-type: none"> • Read chapter 3 	<ul style="list-style-type: none"> • Change a percent to its equivalent decimal or fractions • Use the basic equation form • Express word problems in an equation 	Pg 50 #’s 25 – 35 odd Pg 56 #’s 31 – 49 odd Pg 60 #’s 21 – 39 odd	Ch. 3 Homework 2/19/2008
Week 4 (2/18 – 2/22) Note: 2/18 is a holiday	Unit 1Exam	<ul style="list-style-type: none"> • Measure knowledge of concepts of from Unit I 	Will be placed in LRC on 2/19/2008	Unit 1 Exam 2/25/2008
Week 5 (2/25 – 2/29)	Unit 2 – Retail Mathematics Commercial Discounts <ul style="list-style-type: none"> • Read chapter 12 	<ul style="list-style-type: none"> • Use the trade discount formula • Understand and use sales terms 	Pg(s) 344 – 345 #’s 1 – 15 odd Pg 351 – 352 #’s 1 – 9 odd	Ch. 12 Homework 3/03/2008
Week 6 (3/03 – 3/07)	Markup <ul style="list-style-type: none"> • Read chapter 13 	<ul style="list-style-type: none"> • Give a percentage markup • Calculate the selling price factor 	Pg (s) 364 – 365 #’s 1 – 15 odd Pg(s) 370 – 371 #’s 1 – 15 odd Pg(s) 374 – 375 #’s 1 – 9 odd	Ch. 13 Homework 3/10/2008

<p>Week 7 (3/10 – 3/14)</p> <p>Note: Spring Break from 3/17 – 3/21</p>	<p>Markdown</p> <ul style="list-style-type: none"> Read chapter 14 	<ul style="list-style-type: none"> Use formulas for percentage markdown Find the total handling cost 	<p>Pg(s) 385 – 386 #’ 1- 15 odd Pg(s) 393 – 394 #’s 1 – 9 odd Pg 397 #’s 1 & 3</p>	<p>Ch. 14 Homework 3/24/2008</p>
<p>Week 8 (3/24 – 3/28)</p>	<p>Unit 2 Exam</p>	<ul style="list-style-type: none"> Measure knowledge of concepts of from Unit II 	<p>The Unit 2 exam will be placed in the LRC on 3/24/2008</p>	<p>Unit 2 Exam 3/31/2008</p>
<p>Week 9 (3/31 – 4/04)</p>	<p>Unit 3 – Mathematics of Finance Simple interest</p> <ul style="list-style-type: none"> Read chapter 15 	<ul style="list-style-type: none"> Use the simple interest formula Compute ordinary of exact interest Compute the present value 	<p>Pg 405 #’s 1 – 9 odd Pg 409 #’s 1 – 5 odd Pg(s) 412 – 413 #’s 1 – 15 odd Pg 420 #’s 1 - 9 odd Pg(s) 426 – 427 #’s 1 – 9 odd</p>	
<p>Week 10 (4/07 – 4/11)</p>	<ul style="list-style-type: none"> chapter 15 (con’t) 			<p>Ch. 15 Homework 4/14/2008</p>
<p>Week 11 (4/14 – 4/18)</p>	<p>Bank Discount</p> <ul style="list-style-type: none"> Read chapter 16 	<ul style="list-style-type: none"> Proceeds of a simple discount note Determine equivalent simple interest Rediscount a simple discount note 	<p>Pg(s) 440 – 441 #’s 1 – 9 odd Pg(s) 448 – 449 #’s 1 – 15 odd Pg(s) 452 – 453 #’s 1 – 9 odd Pg 456 #’s 1 – 15 odd</p>	<p>Ch. 16 Homework 4/21/2008</p>
<p>Week 12 (4/21 – 4/25)</p>	<p>Multiple Payment Plans</p> <ul style="list-style-type: none"> Read chapter 17 	<ul style="list-style-type: none"> Credit due for partial payment accounts Open-end charge account Calculate installment plan purchases Verify the annual percentage rate 	<p>Pg 464 #’s 1, 3, 5 Pg 470 #’s 1 – 7 odd Pg(s) 480 – 481 #’s 1 – 15 odd Pg(s) 487 – 488 #’s 1 – 9 odd</p>	<p>Ch. 17 Homework 4/28/2008</p>

Week 13 (4/28 – 5/02)	Compound interest <ul style="list-style-type: none"> • Read chapter 18 	<ul style="list-style-type: none"> • Compute a compound amount • Compute present value 	Pg 496 #'s 1 – 9 odd Pg(s) 503 – 504 #'s 1 – 17 odd Pg(s) 511 – 512 1 – 9 odd Pg(s) 517 – 518 #'s 1 – 13 odd	Ch. 18 Homework 5/05/2008
Week 14 (5/05 – 5/09)	Annuities, Sinking funds, and Amortization <ul style="list-style-type: none"> • Read chapter 19 	<ul style="list-style-type: none"> • Determine the amount and compound interest on an annuity • Compute the present value of an annuity • Prepare a sinking fund schedule • Prepare an amortization schedule 	Pg(s) 524 – 525 #'s 1 – 9 odd Pg(s) 531 – 533 #'s 1 – 15 odd Pg(s) 539 – 540 #'s 1 – 9 odd Pg(s) 549 – 550 #'s 1 – 15 odd	Ch. 19 Homework 5/12/2008
Week 15 (5/12 – 5/16)	Unit 3 Exam	<ul style="list-style-type: none"> • Measure knowledge of concepts of from Unit III 	The Unit 3 exam will be placed in the LRC on 5/12/2008	Unit 3 Exam 5/19/2008
Week 16 (5/19 – 5/23)		<ul style="list-style-type: none"> • Review for final exam 		
Finals Week (5/26 – 5/30) <ul style="list-style-type: none"> • 5/26 is a holiday and 5/30 is graduation day • The Final Exam due date is Monday, May 27, 2008. The exam will be placed in the LRC on Friday, May 23, 2008. 				