TAFT COLLEGE
West Kern Community College District

Business (BUSN) 1050 Business Mathematics (3 Units)
[formerly Business 50; Business 21]

Advisory: Eligibility for Mathematics 1050 strongly recommended

Total Hours: 48 hours lecture

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

Type of Class/Course: Degree Credit

Text: Webber, John. *Math for Business and Life.* 5th ed. Salt Lake City: Olympus, 2013. Print.

Additional Instructional Materials: None

Course Objectives:

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

1.   demonstrate a knowledge of math concepts and business practices,
2.   solve business related problems utilizing mathematical tools with heavy emphasis on the use of basic algebraic equations, and
3.   use mathematical strategies and thinking to be effective consumers.

Course Scope and Content:

Unit I   Review of Arithmetic and Operations

        A.   Equations
        B.   Percentages
        C.   Fractions
        D.   Whole Numbers
        E.   Decimals
        F.   Basic Equations

Unit II   Retail Mathematics

        A.   Commercial Discounts
        B.   Markup
        C.   Markdown

D. Turnover
E. Taxes

Unit III   Mathematics of Finance

A. Simple Interest
B. Bank Discount
C. Multiple Payment Plans
D. Composed Interest
E. Annuities
F. Sinking Funds

Unit IV   Accounting Mathematics

A. Basic Statistics and Graphs
B. Taxes
C. Checkbook Records
D. Depreciation and Overhead
E. Financial Statement Analysis
F. Distribution of Profit and Loss
G. Discounts
H. Payrolls
I. Inventory

Unit V   Consumer Mathematics

A. Installment Buying
B. Consumer Loans
C. Investments
D. Insurance
E. International Translations

Learning Activities Required Outside of Class:

The students in this class will spend a minimum of 6 hours per week outside of the regular class time
doing the following:

1.   Studying class notes
2.   Answering questions
3.   Completing required reading
4.   Performing problem solving activities or exercises
5.   Doing written work
6.   Participating in group projects

Methods of Instruction:

1.   Readings
2.   Lectures
3.   Demonstrations of sample problems on blackboard
4.   Assigned problems from the text

5. Multimedia presentations
6. Group explorations
7. Case studies and scenarios

Methods of Evaluation:

1. Writing assignments, including:
   a. written homework from chapters
   b. group reports
   c. topic paper written under American Psychological Association (APA) style guide
   d. chapter critical analysis reflections
   e. case studies
   f. scenarios
   g. simulations

2. Problem-solving demonstrations, including:
   a. exams
   b. homework problems
   c. laboratory reports
   d. case study recommendations and solutions

3. Other summative examinations using combinations of:
   a. multiple choice questions
   b. matching items
   c. true/false questions
   d. short answer questions
   e. fill in the blank responses

4. Participation including:
   a. role-playing and group activities
   b. oral presentations and demonstrations
   c. discussion responses
   d. scenario reflections

5. Projects including:
   a. multimedia presentations
   b. business scenario responses
   c. action plans
   d. formal written reports
   e. portfolios
   f. community service projects
   g. building new case studies

Supplemental Data:

T.O.P. Code:	050100 Business and Commerce, General
Sam Priority Code:	C: Clearly Occupational

Funding Agency:	Y: Not Applicable
Program Status:	1: Program Applicable
Noncredit Category:	Y: Not Applicable
Special Class Status:	N: Course is not a Special Class
Basic Skills Status:	Not Applicable
Prior to College Level:	Y: Not Applicable
Cooperative Work Experience:	N: is not a part of a cooperative work experience education program
Eligible for Credit by Exam:	Yes
Eligible for Pass/No Pass:	Yes