

Advanced Algebra with Financial Applications

Unit 1...The Stock Market

- 1.1 Business Organization**
- 1.2 Stock market Data**
- 1.3 Stock market Data Charts**
- 1.5 Stock Market Ticker**
- 1.6 Stock Transactions**
- 1.7 Stock Transaction Fees**
- 1.8 Stock Splits**
- 1.9 Dividend income**

Unit 2...Modeling a Business

- 2.1 Interpret Scatterplots**
- 2.3 Supply and Demand**
- 2.4 Fixed and variable Expenses**
- 2.5 Graphs of Expense and Revenue Functions**
- 2.6 Breakeven Analysis**
- 2.7 The profit Equation**
- 2.8 Mathematically Modeling a Business**

Unit 3...Banking Services

- 3.1 Checking Accounts**
- 3.2 Reconcile a Bank Statement**
- 3.3 Savings Accounts**
- 3.4 Explore Compound Interest**
- 3.5 Compound Interest Formula**
- 3.6 Continuous Compounding**
- 3.7 Future Value of Investments**
- 3.8 Present Value of Investments**

Unit 4...Consumer Credit

- 4.1 Introduction to Consumer Credit**
- 4.2 Loans**
- 4.3 Loan Calculations and Regression**
- 4.4 Credit Cards**
- 4.5 Credit Card Statement**
- 4.6 Average Daily Balance**

Unit 5...Automobile Ownership

- 5.1 Classified Ads**
- 5.2 Buy or Sell a Car**
- 5.3 Graph Frequency Distributions**
- 5.4 Automobile Insurance**
- 5.5 Linear Automobile Depreciation**
- 5.6 Historical and Exponential Depreciation**
- 5.7 Driving Data**
- 5.8 Driving Safety Data**
- 5.9 accident Investigation Data**

Unit 6...Employment Basics

- 6.1 Look for Employment**
- 6.2 Pay Periods and Hourly Rates**
- 6.3 Commissions, Royalties, and piecework pay**
- 6.4 Employment Benefits**
- 6.5 Social Security and Medicare**

Unit 7...Income Taxes

- 7.1 Tax tables, Worksheets, and Schedules**
- 7.2 Modeling Tax Schedules**
- 7.3 Income Statement**
- 7.4 Forms 1040EZ and 1040A**
- 7.5 Form 1040 and Schedules A and B**

Unit 8...Independent Living

- 8.1 Find a Place to Live**
- 8.2 Read a Floor Plan**
- 8.3 Mortgage Application Process**
- 8.4 Purchase a Home**
- 8.5 Rentals, Condominiums, and cooperatives**

Unit 9...Planning for Retirement

- 9.1 Retirement Income from savings**
- 9.2 Social Security Benefits**
- 9.3 Pensions**
- 9.4 Life Insurance**

Unit 10...Prepare a Budget 480

- 10.1 Utility Expenses**
- 10.2 Electronic Utilities**
- 10.3 Charting a Budget**
- 10.4 Cash Flow and Budgeting**