

Math & Financial Applications

September

Payroll – ELA 1; CDOS 1,2,3; MST 1,2,3,6,7

- A. Terminology and procedures
- B. Compensation Plans: Salary, Hourly, Piecework, Commission, Overtime, Gross vs. Net Pay
- C. Deductions taxes, FICA, Federal Tax, State Tax, Voluntary deductions, Mandatory deductions
- D. Benefits; Cost: Job Benefit Analysis
- E. Tax Preparation, Federal & State Tax Preparation

June

Interdisciplinary Project

Review

May

US Currency vs. Foreign Currency – Lote 2

- A. International Money Conversions
- B. Global Investments
- C. Risk / Benefit Analysis of Foreign Investment

October

Interest – ELA 1

- A. Simple Interest Formula
- B. Compound Interest Formula
- C. Maturity Dates
- D. Time Calculations
- E. Finding the Time or Rate
- F. Compounds – Daily, Monthly, Quarterly, Semiannually and Annual
- G. Calculate effective rate (APR)

Key Ideas / Concepts

1. Reasoning
2. Numbers and numerations
3. Operations
4. Modeling/multiple representations
5. Measurement
6. Uncertainty
7. Patterns and functions

Course Goals

April

Financial Statement Analysis – ELA 4

- A. Financial Reports
- B. Income statement
- C. Balance sheet
- D. Charts and graphs representing data
- E. Probability
- F. Economic statistics, CPI, Inflation rate

November

Budgeting/Depreciation – SS 4

- A. Budget Construction/Analysis
- B. Forecasting for needs and goals
- C. Methods of Depreciation
-Straight line,
-Double declining balance, -Sum of the years digits
- D. Reasons for Depreciation
- E. Guidelines from IRS – Method of Determination

Using calculators and/or software to create formulas and generate tables/graphs using real applications of:

- Payroll
- Interest
- Budgeting/depreciation
- Loans/banking
- Annuities
- Credit
- Investment
- Financial statement analysis
- Currency

March

Investment – SS 4

- A. Real Estate – Residential vs. Commercial
- B. Mutual funds
- C. Stocks
- D. Common stock
- E. Preferred stock
- F. Bonds
- G. Retirement planning – 401k, 403b, IRA, Roth IRA,
- H. Retirement and estate planning
- I. Tax Implications
- J. Dividends and capital gains
- K. Gains and losses (ROI)
- L. Reading and interpreting market quotations
- M. Treasury Bills
- N. Individuals net worth

December

Loans/Banking – SS 4

- F. Terminology and procedures
- G. Electronic Banking and Software Applications
- H. Types of Checking Accounts
- I. Interpreting Account Records
- J. Mortgages, Rates, Term Calculations, Amortization Cost
- K. Types of mortgages – Variable, Fixed, Balloon, Private, FHA, Home Equity, VA, Sunny Mae, and Fanny Mae

January

Loan / Banking –Cont...

- A. Second Mortgage
- B. Student loans / Financial Aid
- C. Owning vs. Renting Real Property
- D. Auto purchasing vs. auto leasing
- E. Personal loans

Annuities

- A. Types of Annuities and Calculations
-Ordinary Annuities (Mortgage Payment)
-Forborne Annuity
-Deferred Annuity (Tax Shelter Annuity)
-Periodic Payment of an Annuity

February

Credit – SS 5

- A. Checking your credit rating
- B. Theft and protecting your credit online
- C. Factors affecting credit ratings
- D. Interest on credit cards, term. Fees, and additional charges
- E. Alternative to credit cards, debit cards, prepaid cards