

Course Name: Math of Finance

Course Number: MAT*E103

Credits: 3

Catalog description: An elementary course covering a wide range of mathematics commonly used in business and personal finance. Topics include: simple and compound interest, present value, wages, taxes, insurance, and marketing and retailing mathematics.

Prerequisite: Satisfactory score on placement test or MAT* E095 or MAT* E095I with a grade of C or higher, or Permission of department chair based on review of high school transcript, and eligible for ENG* E101.

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s): *None*

Discipline-Specific Attribute Code(s):

☑ MATH Mathematics elective

Course objectives:

General Education Goals and Outcomes:

None.

Course Specific Objectives:

- 1. To perform computations related to taxes, insurance and wages
- 2. To perform the computations related to interest
- 3. To perform the computation related to marketing and retail math
- 4. Evaluate the results obtained from quantitative methods for accuracy and /or reasonableness by solving problems analytically.



Course Content:

Taxes

- Sales Tax
- Property Tax
- Insurance
 - Business Insurance
 - Motor Vehicle Insurance
 - Life Insurance
- Checkbook and Cash Records
 - Checkbook Reconciliation
- Wages and Payrolls
 - Salary
 - Commission
 - o Hourly Rate Basis
 - Production Basis
 - Net Weekly Payrolls
- Simple Interest
 - Basic Simple Interest
 - Ordinary Time and Exact Time
 - Ordinary Interest and Exact Interest
 - Simple Interest Notes
 - Present Value
- Compound Interest *
 - Compound Interest (by Computation)
 - Compound Amount (using Tables)
 - Interest Compounded Daily

Annuities *

- Amount of an Annuity
- Present Value of an Annuity

Markup *

- Markup Based on Cost
- Markup Based on Selling Price
- Marking Perishables

Markdown *

- Actual Selling Price
- o Markdown vs. Loss
- * Topics as time permits at the discretion of the instructor



Date Course Created:

Date of Last Revision: 02/27/2017