

**ADLTED 723 Course Outline as of Fall 2023****CATALOG INFORMATION**

Dept and Nbr: ADLTED 723 Title: FINANCIAL MATH

Full Title: Financial Mathematics

Last Reviewed: 6/8/2017

<b>Units</b>		<b>Course Hours per Week</b>		<b>Nbr of Weeks</b>	<b>Course Hours Total</b>	
Maximum	0	Lecture Scheduled	0	8	Lecture Scheduled	0
Minimum	0	Lab Scheduled	3.00	4	Lab Scheduled	24.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	24.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 24.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly:

**Catalog Description:**

This course applies mathematical computation with decimals, fractions, and percents to personal finances, including budgeting, saving, and planning for future financial security.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: This course applies mathematical computation with decimals, fractions, and percents to personal finances, including budgeting, saving, and planning for future financial security. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Not Certificate/Major Applicable

## **COURSE CONTENT**

**Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1.

Use mathematical calculations with decimals, fractions, and percents to plan personal finances, including budgeting, saving, retirement, insurance, and investments.

**Objectives:**

At the conclusion of this course, the student should be able to:

1. Perform basic operations of addition, subtraction, multiplication, and division of fractions, decimals, and mixed numbers.
2. Solve problems involving conversions between decimal, fraction, and percent forms.
3. Solve percent problems, including compounded interest.
4. Interpret word problems relating to personal finance and apply appropriate strategies, formulas, and setups to solve them.
5. Identify insurance needs and determine costs based on calculations.
6. Calculate retirement needs and the long-term savings needed to meet those needs.
7. Discuss basic types of investments and calculate the costs and benefits of each.

**Topics and Scope:**

I. Basic operations and conversions

- A. Fractions
- B. Decimals
- C. Percents

II. Word problem interpretation and strategies for solving

III. Percent problems, including simple and compound interest

IV. Application of mathematics formulas and calculations to financial planning

- A. Personal budget, including savings
- B. Loans and credit cards
- C. Insurance costs
- D. Retirement costs and planning
- E. Investments: costs and benefits

**Assignment:**

1. Computation exercises (8 - 10)
2. Word problem exercises as related to specific financial topics (8 - 10)
3. In-class activities applying mathematical calculations to everyday financial situations (8 - 10)
4. Group problem-solving exercises (4 - 6)

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Computation and word problem exercises; in-class application activities

Problem solving  
70 - 80%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

None

Exams  
0 - 0%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation; group problem-solving

Other Category  
20 - 30%

**Representative Textbooks and Materials:**

Instructor prepared materials