

FINANCIAL MATH
ACTIVITY/COURSE CODE: 5281
(This course will be deleted as of 2019-20)

COURSE DESCRIPTION: Financial Math empowers students to become college and career-ready by offering multiple opportunities to use, construct, analyze, and respond to financial situations. Incorporating decision-making skills and hands-on activities, students become wise and knowledgeable consumers, savers, investors, users of credit, and money managers.

OBJECTIVE: Given the necessary equipment, supplies, and appropriate software, the student will be prepared to successfully complete the following standards.

COURSE CREDIT: 1 Carnegie unit (120 hours)

RECOMMENDED GRADE LEVELS: 10-12

PREREQUISITE: None

COMPUTER REQUIREMENT: One computer per student; Internet Access

RESOURCES: [MySCTextbooks](#)

INDUSTRY CREDENTIALS/CERTIFICATION AVAILABLE:
Everfi Financial Literacy
W\$SE Financial Literacy Certificate Program

A. SAFETY

Effective professionals know the academic subject matter, including safety as required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Review school safety policies and procedures.
2. Review classroom safety rules and procedures.
3. Review safety procedures for using equipment in the classroom.
4. Identify major causes of work-related accidents in office environments.
5. Demonstrate safety skills in an office/work environment.

B. STUDENT ORGANIZATIONS

Effective professionals know the academic subject matter, including professional development, required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Identify the purpose and goals of a Career and Technology Student Organization (CTSO).
2. Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.
3. Explain the benefits and responsibilities of being a member of a CTSO.
4. List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.
5. Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.

C. TECHNOLOGY KNOWLEDGE

Effective professionals know the academic subject matter, including the ethical use of technology as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.
2. Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.
3. Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.
4. Explain the consequences of social, illegal, and unethical uses of technology (e.g., piracy; cyberbullying; illegal downloading; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).
5. Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, documents, video, sounds, music, trademarks, and other elements for personal use.
6. Describe ethical and legal practices of safeguarding the confidentiality of business-related information.
7. Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.

D. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS

Effective professionals know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate punctuality.
2. Demonstrate self-representation.
3. Demonstrate work ethic.
4. Demonstrate respect.
5. Demonstrate time management.
6. Demonstrate integrity.
7. Demonstrate leadership.
8. Demonstrate teamwork and collaboration.

9. Demonstrate conflict resolution.
10. Demonstrate perseverance.
11. Demonstrate commitment.
12. Demonstrate a healthy view of competition.
13. Demonstrate a global perspective.
14. Demonstrate health and fitness.
15. Demonstrate self-direction.
16. Demonstrate lifelong learning.

E. PROFESSIONAL KNOWLEDGE

Effective professionals know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate effective speaking and listening skills.
2. Demonstrate effective reading and writing skills.
3. Demonstrate mathematical reasoning.
4. Demonstrate job-specific mathematics skills.
5. Demonstrate critical-thinking and problem-solving skills.
6. Demonstrate creativity and resourcefulness.
7. Demonstrate an understanding of business ethics.
8. Demonstrate confidentiality.
9. Demonstrate an understanding of workplace structures, organizations, systems, and climates.
10. Demonstrate diversity awareness.
11. Demonstrate job acquisition and advancement skills.
12. Demonstrate task management skills.
13. Demonstrate customer-service skills.

F. FINANCIAL RESPONSIBILITY AND DECISION MAKING

Effective business and finance professionals understand the importance of financial responsibility and effective decision making. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to financial responsibility and decision making.
2. Demonstrate responsibility for personal financial decisions.
3. Find and evaluate financial information from a variety of sources.
4. Analyze financial data.
5. Make financial decisions by systematically considering alternatives and consequences.

G. INCOME

Effective business and finance professionals understand the concept income and effectively process income-related documents. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to income.
2. Identify sources of personal income.
3. Differentiate between earned and unearned income (e.g., inheritance, interest, dividends, rents, gifts, and royalties).
4. Identify and compute various ways to earn (e.g., salaried, hourly, commission, production, and tips).
5. Calculate gross pay using regular and overtime wages, mandatory deductions, voluntary deductions, and net pay.
6. Calculate FICA, federal, and state taxes.
7. Prepare a 1040EZ using a W-2 form.
8. Prepare a 1040A using a W-2 and a 1099-I (interest) form.

H. PLANNING AND MONEY MANAGEMENT

Effective business and finance professionals understand the importance of planning for effective money management skills. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to planning and money management.
2. Develop, monitor, and evaluate a personal budget.
3. Calculate debt to income ratio.
4. Create a financial recordkeeping system using various software.

I. CREDIT AND DEBT

Effective business and finance professionals demonstrate understanding the significance of using credit and debt. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to credit and debt.
2. Identify the pros and cons of borrowing money.
3. Identify the costs and benefits of various types of credit.
4. Analyze credit scores.
5. Calculate cost of borrowing money (e.g., minimum payments versus payment in full, 36 months versus 48 months, APR).
6. Describe the concept of creditworthiness as it relates to credit records, credit ratings, credit reports, and credit laws.
7. Discuss methods of solving credit problems.
8. Analyze the impact of predatory lending as it applies to credit.

J. PERSONAL RISK MANAGEMENT AND INSURANCE

Effective business and finance professionals demonstrate understanding of personal risk management and insurance. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to risk management and insurance.
2. Describe the risks and needs for insurance.
3. Identify the benefits and characteristics of the different types of insurance, including life, health, property, and liability insurance.
4. Explain the type of protection provided by each type of insurance.
5. Calculate various insurance costs, including premiums, riders, deductibles, limitations, surrender fees, etc.
6. Analyze actuarial tables for different types of insurance.

K. SAVING AND INVESTING

Effective business and finance professionals demonstrate understanding of saving and investing. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to saving and investing.
2. Determine how saving contributes to financial well-being.
3. Evaluate investment opportunities (e.g., stocks, bonds, mutual funds, real estate, and various retirement options).
5. Calculate and compare rates of return of investment options.
6. Calculate taxable interest earned.
7. Calculate tax savings with tax-deferred or tax-free investments.
8. Calculate future and present value of investments.
9. Apply the Rule of 72 to determine investment options.

L. BANKING

Effective business and finance professionals understand banking and effectively process banking-related documents. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to banking.
2. Compare and contrast financial institutions (e.g., online banking, banks, credit unions, finance companies).
3. Identify types of financial services and compare costs (e.g., checking, savings, overdraft, fees).
4. Maintain checking account records (e.g. checks, check register, and deposit slips).
5. Reconcile a bank statement.

M. OWNING AND RENTING

Effective business and finance professionals demonstrate understanding between owning and renting property. The following accountability criteria are considered essential for students in the Finance program of study.

1. Define terms related to owning and renting.
2. Determine true cost of ownership.
3. Calculate annual and total depreciation expense.
4. Analyze lease terms.
5. Evaluate lease-to-own options.
6. Compare costs of owning versus renting.

N. CONSUMER CHOICES

Effective business and finance professionals demonstrate understanding of effective consumer shopping. The following accountability criteria are considered essential for students in the Finance program of study.

1. Differentiate between a need and a want.
2. Compare brand names versus generic products (quality and cost).
3. Calculate net price using discounts, rebates, and coupons.
4. Calculate unit cost.
5. Evaluate opportunity cost between various choices.

O. CAREER DEVELOPMENT

Effective business and finance professionals demonstrate understanding the impact of career choices on income and financial stability. The following accountability criteria are considered essential for students in the Finance program of study.

1. Describe the correlation between income and a worker's skills, education, the value of work to society, condition of the economy, and the supply and demand for workers.
2. Develop a career plan that includes educational requirements, skill development, and income potential.
3. Analyze the costs and benefits of developing new skills for the workplace.
4. Identify the risks and rewards of entrepreneurship/self-employment.
5. Analyze salary vs. hourly career opportunities using graphical and statistical data.
6. Present findings.

[Course Materials and Resources](#)

[Course Academic Standards and Indicators](#)