

Financial Algebra

MTHH 047 055 Credits: 0.5 units / 5 hours / NCAA

Course Description

Financial Algebra is a combination of Algebra and finance taught using applications and project based models. Financial Algebra is a course designed for students who are pursuing a stronger knowledge and skill set of Algebra concepts but are not yet ready for higher-level mathematics. Financial Algebra combines algebraic and graphical approaches with practical business and personal finance applications which help to motivate students to explore algebraic thinking patterns and functions in a financial context.

Prerequisites: Two years of algebra and one year of geometry.

Course Objectives

When you have completed the materials in this course, you should be able to:

- 1. Make sense of problems and apply mathematical reasoning in solving them.
- 2. Reason in theory and quantitatively.
- 3. Construct valuable arguments based upon mathematical information.
- 4. Read charts to find information.
- 5. Model mathematical information.
- 6. Convert word problems to algebraic equations.
- 7. Investigate and interpret graphs and patterns.

Course Outline

Unit 1: Your Income

Lesson 1: Investing in the Stock Market

Lesson 2: Owning a Business

Lesson 3: Having a Job

Unit 2: Other Benefits/ Deductions

Lesson 4: Income Tax

Lesson 5: Social Security and Medicare

Lesson 6: Retirement and Pension

Unit 3: Banking Services

Lesson 7: Checking Accounts

Lesson 8: Savings Accounts

Lesson 9: Account Planning

Unit 4: Consumer Credit

Lesson 10: Introduction to Credit

Lesson 11: Loans

Lesson 12: Credit Cards

Unit 5: Owning a Car

Lesson 13: Buying or Selling a Car

Lesson 14: Costs of Owning a Vehicle

Lesson 15: Driving Statistics

Unit 6: Independent Living

Lesson 16: Finding a Place to Live

Lesson 17: Utilities

Lesson 18: Budgeting

Required Textbook and Materials

(available through Follett virtual bookstore at http://highschool.nebraska.bkstr.com)

Textbook: Financial Algebra-Advanced Algebra with Financial Applications, 1st Ed. Robert Gerver, et.al. Cengage Learning. 2014. ISBN: **9781285444857**