**Snake River High School**

**Financial Algebra A**

**Course Description –** This course discusses the stock market, business analysis, banks and banking services, and consumer credit, with an emphasis on modeling graphically and algebraic analysis.

**Textbook-** Financial Algebra by Gerver and Sgroi.

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| **Chapter 1** | **The Stock Market** |
| 1-1 | Business Organization (A-CED1, A-REI13) |
| 1-2 | Stock Market Data (N-Q1, N-Q2, N-Q3, A-CED1, A-REI13) |
| 1-3 | Stock Market Data Charts (N-Q1, N-Q2) |
| 1-4 | Simple Moving Averages (N-Q1, N-Q2) |
| 1-5 | Stock Market Ticker (N-Q1, N-Q2) |
| 1-6 | Stock Transactions (N-Q1, A-CED1, A-CED4, A-REI13) |
| 1-7 | Stock Transaction Fees (A-CED2) |
| 1-8 | Stock Splits (A-CED1, A-REI13) |
| 1-9 | Dividend Income (A-SSE1) |

This chapter takes approximately 3 weeks.

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| **Chapter 2** | **Modeling a Business** |
| 2-1 | Interpret Scatterplots (N-Q2, N-Q3, F-IF7a, F-IF8, S-ID6, S-ID9) |
| 2-2 | Linear Regression (N-Q1, N-Q2, N-Q3, A-CED2,F-IF1, F-IF7a, F-IF8, S-ID6c, S-ID8) |
| 2-3 | Supply and Demand (A-CED2,F-IF1, F-IF4, F-IF5, F-IF7a, F-IF8, S-ID6c, S-ID8) |
| 2-4 | Fixed and Variable Expenses (A-CED2,A-CED3, A-REI2, A-REI6, A-REI12, F-IF8, S-ID8) |
| 2-5 | Graphs of Expense and Revenue Functions (N-Q1, N-Q2, N-Q3, A-SSE1a, A-CED2, A-CED3, A-REI4b, A-REI10, F-IF7a, F-IF8) |
| 2-6 | Breakeven Analysis (A-CED2, A-CED3, A-REI4b, A-REI7, A-REI10, A-REI11, F-IF7a, F-IF8) |
| 2-7 | The Profit Equation (N-Q1, N-Q2, N-Q3, A-CED2, A-CED3, A-REI7, A-REI10, A-REI11, F-IF7a, F-IF8) |
| 2-8 | Mathematically Modeling a Business (N-Q1, N-Q2, A-CED2, A-CED3, A-REI7, A-REI10, A-REI11, F-IE4, F-IF7a, F-IF8 |

This chapter takes approximately 4 weeks

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| **Chapter 3** | **Banking Services** |
| 3-1 | Checking Accounts (A-SSE1, ASSE3, F-BF1a) |
| 3-2 | Reconcile a Bank Statement (A-CED4) |
| 3-3 | Savings Accounts (A-CED4) |
| 3-4 | Explore Compound Interest (A-SSE1a, A-SSE1b) |
| 3-5 | Compound Interest Formula (A-SSE3c, F-IF8b) |
| 3-7 | Future Value of Investments (F-IF8b) |
| 3-8 | Present Value of Investments (F-IF4, A-SSE3, A-CED4, F-IF8b) |

This chapter takes approximately 3 weeks.

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| **Chapter 4** | **Consumer Credit** |
| 4-1 | Introduction to Consumer Credit (A-SSE1, A-SSE3, A-CED3, F-BF1a) |
| 4-2 | Loans (A-SSE1b, A-SSE2, A-SSE3c, F-IF8b, F-LE5) |
| 4-3 | Loan Calculation and Regression (S-ID6a) |
| 4-4 | Credit Cards (N-Q1, N-Q2, A-SSE1) |
| 4-5 | Credit Card Statement (N-Q1, A-SSE1) |
| 4-6 | Average Daily Balance (N-Q1, A-SSE1) |

This chapter takes approximately 2 weeks.

Grading Policy:

Homework 30%

Tests 60%

Final Test 10%