GOVERNING BOARD AGENDA ITEM
AMPHITHEATER UNIFIED SCHOOL DISTRICT NO. 10

DATE OF MEETING: February 23, 2016

TITLE: Approval of New Course Financial Algebra

BACKGROUND:

This course will enable students to implement the decision-making skills they must apply and use to become knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a 21st century global community. Students will incorporate concepts, skills, and critical thinking from mathematics, language arts, social studies, and applied technology. Students will explore the real number system, linear, quadratic, exponential functions and polynomials, concepts of growth and decay, exponential and logarithmic equations, regression models through the use of spreadsheets, bar graphs, scatter plots, and much more, all while applying these to real-world financial situations including investing, banking, credit, income taxes, insurance, and financial budgeting. This course will satisfy the fourth year state math requirement and will be an Algebra II equivalent.

Students will learn:

Math Concepts:
- Fractions, Decimals, and Percent
- Linear Equation, Mean Average
- Functions: domain and range
- Linear regression, Parabola – Vertex & Axis
- Exponential Functions, Growth, and Decay
- Natural logarithm, Base e, Transitive property
- Limits, Recursive Patterns, Compound Interest
- Exponential Functions, Graphs, Percent Discount
- Inequalities, Literal Expressions
- Area and Scale factors, Bar Graphs, Exponential Regression
- Percent Increase, Probability, Spreadsheets
- Matrices, Proportions, System of Equations

Financial Concepts:
- Percent, sales tax, and discounts
- Income tax
- Simple interest
- Compound interest
- Modeling a business
- Consumer credit
- Banking services
- Prepare a budget

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RECOMMENDATION:
The administration recommends the Governing Board approve this new course title.

INITIATED BY:

(signature)

Monica Nelson, Associate Superintendent   Date: **February 15, 2016**

(signature)

Patrick Nelson, Superintendent