INSTRUCTIONAL DIVISION
Report No. 2

OGDENSBURG CITY SCHOOL DISTRICT
OGDENSBURG, NEW YORK

SUBJECT: New Course Offerings Proposal for 2017-2018 School Year

DATE: December 19, 2016

REASON FOR BOARD CONSIDERATION:

To discuss proposals for several new course offerings for Ogdensburg Free Academy students in grades 9-12, as per attached descriptions.

FACTS AND ANALYSIS:

Mrs. Cynthia Tuttle, High School Principal, is present this evening to discuss several proposals for new course offerings for Ogdensburg Free Academy students in grades 9-12 for the 2017-2018 school year.

RECOMMENDED ACTION:

Information only

APPROVED FOR PRESENTATION TO THE BOARD:

Superintendent

TMV/alf
Attachment

OGDENSBURG CITY SCHOOL DISTRICT
NEW COURSE OFFERINGS PROPOSAL FOR THE 2017-2018 SCHOOL YEAR

1. **Science Olympiad – Advisors are Amber Henry and Cristy Smith**
   - Non-Traditional Course
   - Students receive ¼ credit for the fall marking period
   - Students must compete in at least three events and log enough hours to equal a quarter credit class (approximately 28 hours)
   - Students will meet the first, third, fourth and possibly fifth Wednesday of the months of October through February for a total of 10 hours. Students will know in advance which Wednesday we will meet so as not to conflict with faculty meetings.
   - Students will choose two-three Saturdays in December and January to be at school for 2-4 hours each for a total of 8 hours.
   - Students will keep a log of how many hours they have worked independently on their events with a total of at least 10 hours.
   - In order to receive the ¼ credit students must participate at Clarkson University at the Science Olympiad competition and be there for the entire day of events (approximately 8 hours).

2. **Digital Art Elective – Advisor Mary Simon**
   - Digital Art would be a ½ credit course for one semester
   - This course will be a digital art elective for a half-year at OFA for students in grades 10-12.
   - This course is designed to teach students about digital photography, photo editing, digital drawing and graphic design (logos and posters) resulting in a diverse portfolio at course completion. Students will also learn about digital citizenship and how to responsibly use technology while learning about the digital arts.
   - This course would require daily access to computers with Internet access, Wacom Tablets and digital cameras for students without a smart phone.

3. **College Algebra – Please see attached Master Course Outline**

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Master Course Outline
College Algebra

Prerequisite(s): Passing score on the Algebra Common Core Regents and either Math 10C, Math 9, or Algebra course, Passing score in either course Geometry, Math 10, or Non-Regents Geometry.

Credits: 3 college credit through Paul Smiths College at $40 a credit hour. The course is intended for students who plan to go to a two year college.

Course Description: This course will start with a review of basic algebra including exponents, scientific notation, factoring, polynomials, rational expressions and radicals. It will also include solving linear, quadratic, rational, and application equations. Functions will be introduced and explored to include polynomial, rational, exponential, logarithmic and radical functions. Techniques of graphing these functions will also be explored. Additionally students will study systems of equations and linear inequalities.

Quantitative Literacy Foundation (QF) Objectives:

1. Represent mathematical information symbolically, visually, numerically, ***or*** verbally.
2. Access data on a computer, network system, **or** instrument. (I)(T)
3. Interpret models such as formulas, graphs, tables, and schematics to draw inferences.
4. Apply arithmetical, algebraic, geometric and statistical methods to solve problems.

Course Objectives: Upon successful completion of this course, students will be able to:

- Represent mathematical information symbolically, visually, numerically, ***or*** verbally.
- Access data on a computer, network system, **or** instrument. (I)(T)
- Interpret models such as formulas, graphs, tables, and schematics to draw inferences.
- Apply arithmetical, algebraic, geometric or statistical methods to solve problems.

Assessment:

Student:

- Students will be assessed using a variety of measures which may include homework, quizzes, projects, and tests plus a cumulative final exam.
- Test items will be identified for each of the objectives and an item analysis will be conducted. This item analysis will include regular exams as well as the final.
- These evaluation measures may be in class at the discretion of the instructor.
- Grades will be assigned to each component of the course and each student will receive written feedback as comments on their assignments and tests.

Primary Resources:

1. Algebra and Trigonometry by Blitzer, Pearson.
2. Supplemental Instruction will be available for this course.

Course Outline:

- Review of Basic Algebra.
- Functions. Topics covered include domain and range, graphing, distance and slope and function operations.
- Equations and Inequalities. Types of equations covered include those with rational expressions, radicals, absolute value and inequalities.
- Graphing Techniques. Topics will include techniques in graphing straight lines, quadratics, polynomial and rational functions.
- Exponential and Logarithmic Functions. Topics will include the study of inverse, exponential and logarithmic functions, exponential and logarithmic equations, and growth and decay functions.
- Systems of Equations. Techniques to solve systems of linear and non-linear equations.