

**Owego Free Academy  
1 Sheldon Guile Boulevard  
Owego, New York 13827**

Heath H. Georgia  
Principal



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Dear Parent/Guardian:

As the school year nears completion, I am excited to inform you of some classes that we will be adding to OFA starting next school year. In many of the new classes, college credit attached through Advanced Placement or Tompkins Community College is being offered. Attached is a listing of the new classes that were offered this school year (2016-2017) and classes that we will be offering for the first time next year (2017-18). Along with the list of new classes there is also brief description included. Please speak with your son or daughter about enrolling into these classes.

Over time, we have observed a shift in our student's schedules where they are not signing up for electives, and then sitting in study halls multiple periods each day. This is especially true with our upper level students. With this in mind, we have developed courses that are interesting, have value in the real world, and in many cases help students accumulate college credits.

I sincerely hope you encourage your son or daughter to take advantage of the new electives offered at Owego Free Academy. With that in mind, please speak with your son or daughter to see how many study halls they have scheduled for the next school year. If they have more than one study hall, I would encourage that you have them sign up for one of our new elective classes.

If there is an elective(s) that your student would like to take please fill out the enclosed form and return it to the Guidance Office.

*Please keep in mind that electives will be added after core academic requirements have been scheduled.*

**Attached Forms:**

- **Guidance New Elective Enrollment Form**
- **New Elective Class Descriptions**

Sincerely,

*Heath H. Georgia*

Heath H. Georgia  
Principal

# Guidance Enrollment Form New Electives

Please return this form completed to the Guidance Department

Student Name \_\_\_\_\_

Student Email \_\_\_\_\_

Elective that I would like to take:

\_\_\_\_\_ Accounting

\_\_\_\_\_ Astronomy – TC3

\_\_\_\_\_ Computer Aided Manufacturing (CAM)

\_\_\_\_\_ Design Draw & Production – TC3 – Dual Credit

\_\_\_\_\_ Human Anatomy and Physiology

\_\_\_\_\_ AP Language and Composition

\_\_\_\_\_ Music Appreciation – TC3 College Credit

\_\_\_\_\_ Music Theory 1 – TC3 Credits

\_\_\_\_\_ Music Theory 2 – TC3 Credits

\_\_\_\_\_ Personal Health & Fitness – TC3 Dual Credit

\_\_\_\_\_ AP Psychology

\_\_\_\_\_ Automation and Robotics

If selecting more than one elective please indicate your level of interest in the courses numerically (1 indicating the highest priority).

# **New OFA Course Offerings Starting 2017-2018**

## **Math**

### **AP Computer Science Principals**

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principals prepares students for college and career.

## **English**

### **AP Language and Composition**

Understand the interactions among a writer's purpose, audience, subject, and genre and how each of these contributes to effective writing. Enhance your own writing skills and understand better each stage of the writing process as you develop expository, analytical, and argumentative compositions.

## **Social Studies**

### **AP Psychology**

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

## **Science**

### **Human Anatomy and Physiology**

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, and other related topics. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

### **Astronomy – 3 College Credits**

A general study of the fundamental principles of astronomy. The course concerns motions of the earth, members of the solar system, stars, and the universe.

## **STEAM/Technology**

### **Automation and Robotics**

A course that applies principles of robotics and automation. The course builds on computer sold modeling skills developed in DDP/IED. Students use CNC equipment and 3D Printers to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included. VEX, Scorbot, Lego Mindstorms, and Parallax Robotic Systems will be used.

## **Computer Aided Manufacturing (CAM)**

Units: ½ (20 weeks)

Prerequisites: Manufacturing I & II is preferred

Course Description: In this course we will build on the knowledge of manufacturing products using computer controlled tools and hand tools. The course will focus on production of products that incorporate the use of our laser engraver and CNC machines. Students should expect to spend 75% of their time designing and building products.

Enrollment: Due to machine and lab restrictions we would ask that the enrollment in this course be capped at 12.

## **DDP – Design Drawing & Production**

TC3 This course is intended to provide opportunities for students to design and draw through creative thinking, decision making, and problem-solving experiences. This is a hands-on course with many sketching, computer-aided design, and model construction exercises. Students may design a variety of different items and create prototypes using CNC mills, 3D printers and other advanced manufacturing machines.

## **Business**

### **Accounting**

This course is an introduction to the basic concepts and standards underlying financial accounting systems. ... The course emphasizes the construction of the basic financial accounting statements - the income statement, balance sheet, and cash flow statement - as well as their interpretation.

## **Music**

### **Music Appreciation – 3 College Credit**

This course is designed to help students develop their understanding of music as a language of human expression. The melodic, rhythmic, harmonic form, and historical significance of selected pieces are examined. Students are introduced to a wide variety of music from primitive to modern times and develop the skill to recognize patterns, forms, and styles found in music.

### **Music Theory 1 – 3 College Credits**

This course is a basic introduction to music fundamentals. Students learn notation, rhythmic patterns, melodic pattern, and harmonic progressions. Analysis of musical textures and forms, ear training, and sight reading are included.

### **Music Theory 2 – ½ High School Credit and 3 College Credits**

A study of fundamental chords structures, the ways in which they are formed, and the ways they work. This material should be of use to musicians as they improvise all styles of existing music.

## **Physical Education**

### **Health and Fitness – 1/2 High School Credit and TC3**

Students closely examine the elements of health and health-related components of physical fitness in this introductory course. Planning and participating in an interesting successful exercise and nutrition program is a fundamental aspect of this course. Successfully preventing, responding to injury/illness, and increasing or maintaining a productive level of energy are all issues which, when managed properly, contribute to an improved quality of life.



