

# Gilbertsville-Mount Upton CSD

## 9-12 Course Catalog, 2012-2013



### Mission Statement

The Gilbertsville-Mount Upton School District is committed to an educational environment that assures equitable opportunity for individuals to become responsible, productive members of society. We will encourage individual excellence in students of all ages that they may gain a lifetime enthusiasm for work and learning.

**Courses Available**

Fine Arts.....3-4  
Music .....5-6  
Business ..... 7  
Occupational Studies..... 8  
Family & Consumer Science ..... 9  
Social Studies .....10-13

**Courses Continued**

English ..... 14-18  
Mathematics ..... 19-21  
Science ..... 22-24  
Health & Physical Ed. .... 25-26  
Foreign Language ..... 27-28

**Course and Testing Requirement  
For Graduation** Pg. 29

Course Requirements  
Regents Diploma  
Advanced Regents Diploma  
State Exam Requirements

## Studio Art

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* None

Studio Art is the entry class for High School Art. In Studio Art we cover the Elements of Art and the Principles of Design.

The students work with different materials: pencil, marker, pens, paper for collage, and sometimes clay.

Students are instructed in various drawing techniques. Some writing is required in the form of a critique and a report on an artist.

This course meets the NYS requirement for Fine Arts / Technology.

## Drawing and Painting

*Grade(s):* 10, 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* Studio Art

This course is an introduction to the use of various drawing materials such as pencils, charcoal, colored pencils, and pastels.

Painting is introduced with watercolor and acrylics. All of these are practiced in various projects.

As well as serving as practice for each new medium, the projects are designed for students to learn about artists and schools of art that influence art work today.

## 3D Art

*Grade(s):* 10, 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* Studio Art

3D Art explores traditional ceramic techniques with an introduction to various methods of hand-building with clay, including pinch, slab and coil. Projects include pots, boxes and tiles. Students are also instructed in the use of different glazes.

The class will then explore other possibilities of 3D design using a variety of materials. Pieces are created using wire, cardboard, wood, papier mâché, plaster and all kinds of found objects. Subjects include self-portraits, fantasy houses, undersea creatures and food. Good design and proper construction techniques are stressed.

**Senior Theme**

*Grade(s): 12*

*Credit: 1*

*Elective, Non-Regents*

*Prerequisite(s): Studio Art*

This is an independent study class in which seniors choose a theme or subject which is the basis of all their art work. Seniors create a series of projects in various mediums based on the chosen theme. Refreshers are offered on the use of the mediums offered. Themes are subject to approval.

**Digital Photography**

*Grade(s): 12*

*Credit: 0.5*

*Elective, Non-Regents*

*Prerequisite(s): Studio Art*

Students are instructed in how to operate a digital camera and upload and manipulate images on a computer.

Artistic composition using the elements of design are emphasized, as well as techniques for self expression

**Photography**

*Grade(s): 12*

*Credit: 0.5*

*Elective, Non-Regents*

*Prerequisite(s): Studio Art*

Students learn all aspects of classic black and white photography. They study the masters of photography to learn what constitutes a good photograph and how to produce expressive work of their own. Students learn how to operate a 35mm SLR camera, how to process black and white film into negatives and how to make prints from these negatives.



## High School Band

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* None

Students will study, rehearse and perform instrumental music of varying levels of difficulty and styles representing the classical to contemporary periods in music history, including a variety of musical genres.

Participation in Marching Band is a requirement for all members. Each member will have a small group lesson on a weekly basis. All students should recognize and develop the individual responsibilities and self-discipline that are essential to the development and growth of the organization.

## High School Chorus

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* None

Students will study, rehearse and perform choral music of varying levels of difficulty and styles.

Emphasis will be placed on learning music theory and music history as it is related to choral literature, as well as practicing sight singing and proper vocal technique.

The chorus will present three to four major concert performances for the public each year, and participation is required for all members.

## Jazz Band

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* None

Jazz Band will provide current band students the opportunity to further develop their skills in the various styles that define “Jazz” through performing in a traditional “big band” style ensemble. Musical styles studied will include (but are not limited to) swing, Latin, rock, funk, and ballads. Basic skills in improvisation will be introduced and developed. Jazz Band is open to students that are currently enrolled in Symphonic Band



**Ladies' Ensemble**

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* None

The Ladies Ensemble is a vocal performance group open to female students in grades 9-12.

While singing in three or more vocal parts, the ensemble will analyze, rehearse, and perform a varied repertoire from early polyphonic music to contemporary art songs, pop, and jazz.

The Ladies Ensemble will perform at all choral concerts as well as the small ensemble concert.

Grading will be based on attitude, participation, and vocal growth benchmarked each marking period.

**TC3 Music Theory 1**

*Grade(s):* 9, 10, 11, 12

*Credit:* GMU: 1, TC3: 3

*Elective, Collegiate*

*Prerequisite(s):* Teacher Approval

Music Theory is the study of the fundamentals of music. The primary objective is to equip students with fluency in the fundamentals of music notation, rhythm reading, form, and pitch discrimination. Students will complete basic musical compositions and harmonic analysis.

Participants should have at least two years of prior experience in a performing ensemble before taking this class.



## SUNY Cobleskill Microcomputer Applications 1

*Grade(s):* 11, 12

*Credit:* GMU: 1, SUNY Cobleskill: 3

*Elective, Collegiate*

*Prerequisite(s):* none

An introduction to the use of microcomputers and application software. Topics will include microcomputer terminology, hardware system components, disk operating systems and MS Windows. The student will learn through hands-on experience the skills necessary to use windows-based word processing, spreadsheets and data base systems.

## SUNY Cobleskill Financial Accounting

*Grade(s):* 11, 12

*Credit:* GMU: 1, SUNY Cobleskill: 3

*Elective, Collegiate*

*Prerequisite(s):* none

Accounting is planning, recording, analyzing, and interpreting financial information. Accounting is the language of business. Many individuals in a business complete accounting forms and prepare accounting reports.



## Financial Management

*Grade(s):* 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* none

This course should help develop the specific skills required to solve a wide variety of mathematical problems commonly found in everyday personal business situations. The ability to solve these problems, through a knowledge of business operations and the application of problem-solving skills, should prepare the student for gainful employment, create a strong foundation for the continuation of a business major in college as well as to be better prepared for his/her own personal financial management.

**Design and Drawing for Production (DDP)**

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* none

In DDP students will learn the basics of design, drawing and production. What is designed depends on the problem or task at hand. How we design is much the same for every problem.

Once the design is completed, students must learn how to communicate it. This is where technical drawing comes in. One does not need to be a good artist in order to draw technically.

After learning how to design and create technical drawings, the student is ready to produce the product or make a model/prototype. This part of the course usually involves machines and tools dependent upon the materials the student is working with. Materials may include wood, metal, plastic or ceramics.

This course meets the NYS requirement for Fine Arts / Technology





## Culinary Arts 1

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* none

The goal of this course is to expand upon the student's basic food preparation skills and to explore more complicated procedures used in food preparation.

Students use a hands-on approach to learning about food preparation techniques, the presentation and appearance of foods, and the use of specialized equipment. The majority of the course work involves food preparation labs integrated throughout the course.

## Culinary Arts 2

*Grade(s):* 10, 11, 12

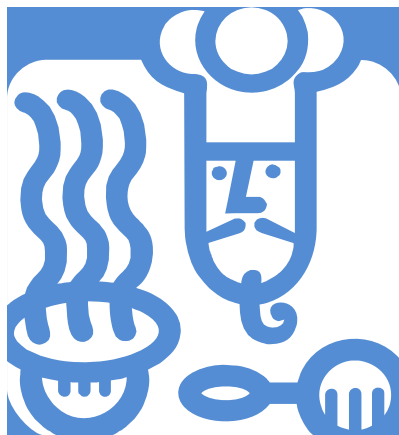
*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Culinary Arts 1

The goal of Culinary Arts 2 is to further expand upon Culinary Arts 1. Students will be exposed to foods and customs both regional and in foreign countries.

Students have the opportunity to prepare and eat foods which may not be familiar to them. New learning about protein foods, career related to food journalism, food styles, and food photography will be integrated into the course.



## Parenting & Child Development

*Grade(s):* 9,10,11,12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* None

The Parenting course will provide students with a broad foundation of the knowledge, skills, and attitudes necessary to promote quality growth and development of children and families in school, community, and workplace settings. Students will develop understanding of the diversity of families and how diversity impacts parenting choices and outcomes. Students will have the opportunity to examine the wide variety of career paths in community and family services, and to identify the knowledge and skills necessary for success within the field.

## Global History and Geography 1

*Grade(s):* 9

*Credit:* 1

*Regents*

*Prerequisite(s):* none

Global History and Geography I represents the first half of a required two course sequence.

The course involves an overview of the world from earliest history up through the French Revolution of the late 18th century. The course begins with the examination of the different fields that form social studies. The major topics that are examined include the classic civilizations of Egypt, Greece and Rome, the medieval world of Europe, the Renaissance, the Age of Exploration and the French Revolution.

The course concludes with a local final exam.

Students may also elect to take this course with an option for college credit from Tompkins County Community College

## Global History and Geography 2

*Grade(s):* 10

*Credit:* 1

*Regents*

*Prerequisite(s):* Global History and Geography I

Global History and Geography II represents the second half of a required two course sequence.

The course concludes with a Regents Exam that must be passed in order to graduate.

The main topics are the Industrial Revolution, Imperialism, World Wars, the Cold War and Modern World.

## TC3 Global History and Geography 2

*Grade(s):* 10

*Credit:* GMU: 1, TC3: 3

*Regents, Collegiate*

*Prerequisite(s):* 85 or above average in Global History and Geography 1

This course option for Global History and Geography 2 adds college credit from Tompkins County Community College

## United States History and Government

*Grade(s):* 11

*Credit:* 1

*Regents*

*Prerequisite(s):* Global History and Geography II

This NYS required Regents course takes a look at the development of the US Constitution and government and how they have operated and changed throughout our history. The study of major events, persons, and time periods and their impact on our development as a nation, with a focus on 1865 to the present, are included.

Daily activities, quarterly projects, Regents review and exams are an important part of class success.

## **Economics**

*Grade(s): 12*

*Credit: 0.5*

*Non-Regents*

*Prerequisite(s): US History and Government*

This NYS required course takes a look at how productive resources are used and distributed; ways to measure economic performance; and how government deals with economic challenges such as poverty, unemployment, inflation, recession and global trade.

## **Participation in Government**

*Grade(s): 12*

*Credit: 0.5*

*Non-Regents*

*Prerequisite(s): US History and Government*

This NYS required course allows students a participatory way to explore our government (local, state, and federal) and to learn how to effectively become a part of our citizenry.

Topics studied include Levels of Government; Current Issues; Public Policy; Voter Apathy; and Citizenship. A Community Service project is required.

## **AP US Politics and Government**

*Grade(s): 12*

*Credit: 1*

*Elective, Non-Regents*

*Prerequisite(s): 85 or above average in Global and US History, or Teacher Recommendation*

This interesting, rigorous course allows for in-depth study of how American government and politics developed, operates, and changes with the times. It incorporates units pertaining to Constitutional Underpinnings; Political Beliefs, and Behaviors; Political Parties, Interest Groups, and Media; Institutions of National Government; Public Policy; and Civil Rights.

After the AP exam in May, students will be exposed to basic economic concepts and theories, concluding in a final exam.



### **Current National and World Events**

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents, Online/Blended*

*Prerequisite(s):* Teacher Approval

This course is designed to provide students with both an opportunity to develop knowledge of current world and national events and the ability to discuss and debate those events with classmates and the instructor. Students can expect to conduct their own research, write content-specific position papers, and create a portfolio of their classroom work. The focus of classroom instruction will be student participation in lectures, discussions, and debates.



### **Contemporary African History**

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents, Online/Blended*

*Prerequisite(s):* Completion of Global Regents

This course is designed to focus on the history of the African Continent following the end of the Colonial Era. Through case studies of specific nations, students will explore the development of the modern African continent. Students can expect to conduct their own research, write content-specific texts, and participate in lectures and discussions. This course will not have a textbook, but students will be expected to read and comprehend college-level documents.

### **A Study in Genocide**

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Completion of Global Regents

This elective course is designed to expose students to the history of 20<sup>th</sup> century genocide. Students start by examining the origins of the modern world genocide. The course continues with a series of case studies including Armenian, Jewish Holocaust, Cambodia, Kurds, Rwanda and Yugoslavia. The course is discussion-based and any students considering enrolling should be sure they are comfortable participating.

### **World War 2 History**

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Completion of Global Regents and US History

This is a lecture style course on World War II. In many ways World War II is the conflict that created the world of the last 75 years.

We will examine the background with an emphasis on the arrival of Hitler, the issues that started the war, the fighting in the war and the results of the conflict. The course will examine both the European and Pacific theaters.

### **United States History through Music and Culture**

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* US History and Government preferred

This course is an elective that offers a fun, alternative focus to the impact of events in U.S. History on our day-to-day culture and the development of American music in response to changes in lifestyle and technology.

Topics include transportation and expansion; Civil War Era; WWI; Jazz Age; The Depression; WWII Swing; Nifty Fifties; Revolutionary 60's; and Punk; Rock; Yuppies.



## English 9

*Grade(s): 9*

*Credit: 1*

*Required, Non-Regents*

*Prerequisite(s): English 8*

English 9 is a world literature survey course. The course focuses on the different genres in literature.

Included in the course are the novel Of Mice and Men, a collection of short stories, and the play Romeo and Juliet.

Students are asked to complete a number of creative writing assignments. Vocabulary and proper use of Language are instructed throughout the course. A number of different approaches and a multitude of creative assessments are incorporated during the course.

## English 10

*Grade(s): 10*

*Credit: 1*

*Required, Non-Regents*

*Prerequisite(s): English 9*

English 10 is a survey course that covers a wide range of writing and literature (e.g. Macbeth, To Kill a Mockingbird, The Crucible, poetry). The course includes writing for various purposes, with emphasis on self and peer-editing and revising. Along with the usual English language instruction (vocabulary, grammar, etc.), and literary analysis, significant time is spent practicing and developing skill in the research process, resulting in a major research paper. Through English 10 reading and writing, students gain the skill and confidence needed to be successful in English as well as other content areas.

## English 11

*Grade(s): 11*

*Credit: 1*

*Required, Regents*

*Prerequisite(s): English 10*

English 11 is an American literature survey course. The course focuses on the different genres in literature, reading samples from each.

Included in the course are the novel Alas, Babylon, a collection of short stories from Edgar Allan Poe and Nathaniel Hawthorne, and the plays Arsenic and Old Lace and Death of a Salesman. Also during the course, students focus on essay writing.

The final exam for this course is the NYS ELA Regents.

## **AP Literature and Composition**

*Grade(s):* 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* English 11, 85 or above average  
in all previous English courses,  
Teacher Recommendation

AP English requires much reading and writing in a broad range of genres and for a wide variety of purposes. As stated in the curricular requirements for AP English Literature and Composition, “the course includes an intensive study of representative works...from both British and American writers, as well as works written in several genres from the sixteenth century to contemporary times. The works selected for the course require careful, deliberative reading that yields multiple meanings.”

Students’ writing in the course will focus on interpretation of literature using textual details, social and historical values, and literary elements. There are assignments that seek to help students understand, explain, and evaluate literature through both formal, extended analysis, and timed, in-class writing.

## **TC3 Academic Writing 1**

*Grade(s):* 12

*Credit:* GMU: 1, TC3: 3

*Elective, Non-Regents*

*Prerequisite(s):* 85 or higher average in all  
previous English courses,  
Teacher Recommendation

Students develop critical thinking skills as they learn to write and revise essays using appropriate rhetorical strategies and correct grammar. Context for the writing assignments, which may center on a theme, is provided by readings drawn from a variety of academic disciplines. Students learn how to summarize, paraphrase, quote, and synthesize sources. Students are introduced to the research process, information literacy, and documentation styles.

## **English 12 (See Courses on pages 15 & 16)**

*Grade(s):* 12

*Credit:* .5 per Course

*Required, Non-Regents*

*Prerequisite(s):* English 11

These courses will incorporate study of all aspects of the English language, with emphasis on preparation for life after high school.

Pre-college reading and writing and writing for life and career situations will combine with literature study and relevant topics of interest to the graduation-bound student.

To complete the requirement for English 12, two courses from the below list must be chosen:

- Creative Writing
- Public Speaking
- Drama
- Pre-College Reading and Writing
- Senior Literature

**Creative Writing**

*Grade(s): 10, 11, 12*

*Credit: 0.5*

*Fulfills ½ of English 12 Requirement*

*Prerequisite(s): English 9*

This English elective attempts to tap the creative spirit present in all students. The class operates in a workshop format, where students read models of good writing (narratives, poetry, and short stories), analyze their elements, and use them as the basis for their own works. Peer sharing and constructive feedback are important steps in the creative writing process and occur frequently in class. Personal portfolios and literary magazines are the culmination of the course.

**Public Speaking**

*Grade(s): 10, 11, 12*

*Credit: 0.5*

*Fulfills ½ of English 12 Requirement*

*Prerequisite(s): English 9*

Public Speaking is for anyone who has ever had to stand up in front of a crowd and say something, but didn't know what to say. It's also for those who will someday have to stand up and deliver a report, make a presentation, pitch a proposal, run a meeting, read a story, give a speech, or just appear relaxed in an unfamiliar or nerve-wracking situation.

The course uses models and practice to cover various speaking situations, rhetorical techniques, visuals, body language, and relaxation.

**Drama**

*Grade(s): 10, 11, 12*

*Credit: 0.5*

*Fulfills ½ of English 12 Requirement*

*Prerequisite(s): None*

This course is designed as an introduction to the theatrical arts, for students with stage performance experience as well as those without.

Units of study include Theater History and Culture, Technical Staging, Skill Building/Acting and Critique/Evaluation.

Students will present a showcase of select performances for the public at the conclusion of the course.





## Pre-College Reading and Writing

*Grade(s):* 12

*Credit:* 0.5

*Fulfills ½ of English 12 Requirement*

*Prerequisite(s):* English 11

Pre-college reading and writing is designed to prepare students to do the kinds of reading, analysis, and writing that they will encounter in a college setting.

The course covers several purposes for writing, including writing personal narratives or reflections, writing to explain concepts, conducting and reporting research, writing to persuade, and writing proposals.

Students spend significant time reading and analyzing writing models while employing practices that enhance reading skill and comprehension.

## Senior Literature

*Grade(s):* 12

*Credit:* 0.5

*Fulfills ½ of English 12 Requirement*

*Prerequisite(s):* English 11

This course incorporates study of all forms of literature, somewhat subject to the interests and needs of the enrolled students and the whims of the teacher.

Readings include works of fiction and non-fiction, combined with discussion and short writing pieces to explore big ideas, themes, literary topics, and issues of the human condition.

This course is a good precursor to college English literature courses.

## SAT Prep – ELA / Math

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* none

This course is designed to provide intensive review of the SAT Exam. Students will receive guidance on learning the language of the test and how best to think logically. Working on vocabulary, reading, composition, and logic and reasoning skills, students will practice the ELA skills and format before attempting to take the exam.

The mathematics content level of the SAT includes advanced topics from four mathematics content areas: Number and Operations, Algebra and Functions, Geometry and Measurement, and Data Analysis, Statistics, and Probability. Math SAT Prep will provide students opportunities to review concepts and try practice problems.

**TC3 Introduction to the College Experience**

*Grade(s):* 12

*Credit:* GMU: .5, TC3: 1

*Elective, Collegiate*

*Prerequisite(s):* Must be a Senior

Promotes students' personal adjustment and academic success in their first college semester. Topics include adjusting to college, developing essential learning and time management strategies, and learning about college resources.

**Yearbook**

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* none

This class will publish the Gilbertsville – Mount Upton School yearbook. The course is open to students who are interested in working on the school yearbook.

Students will develop skills in layout design, story writing, editing, proofreading, advertising and marketing.

**Film Theory and Criticism**

*Grade(s):* 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Must be a senior

Film Theory and Criticism is a course especially designed for seniors. The students are introduced to the different styles of film: realism, classicism, and formalism. The text is Understanding Movies, Tenth Edition by Louis Giannetti.

The remaining weeks in the course are spent viewing various movies: The Green Mile, The Incredibles, The African Queen, Breakfast at Tiffany's, Vertigo, and an assortment of others.

Students are asked to write a two page, typed critique for each of the movies. The critiques are based upon the techniques used by the director. A discussion follows each movie.



## Pre- Algebra

*Grade(s):* 9

*Credit:* 1

*Core, Non-Regents*

*Prerequisite(s):* Teacher Recommendation

Pre-Algebra will cover the prerequisites required to make sure that students are prepared to handle the rigors of Integrated Algebra.

The course works at the pace of the students involved with the goal of teaching them the basic skills needed to succeed in proceedings mathematics courses. It is designed to present a logical development as an introductory course to algebra that emphasizes basic concepts, skills, and fundamental operations. Increased emphasis is placed on such topics as the use of integers, equations, inequalities, graphing, and applications to problem solving.

Students will enter into Integrated Algebra upon completion of this course.

## Integrated Algebra

*Grade(s):* 9

*Credit:* 1

*Core, Regents*

*Prerequisite(s):* none

Some of the topics that will be covered include: algebraic expressions, equations, inequalities, exponents, polynomials, factoring, quadratic equations, probability, statistics, geometry, measurement, surface area and volume.

Students will sit for a NYS Regents Examination upon successful completion of this course.

## Geometry

*Grade(s):* 10

*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Integrated Algebra

Geometry is the second course in mathematics for high school students. Students will have the opportunity to make conjectures about geometric situations and prove both formal and informal, that their conclusion follows logically from their hypothesis.

This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences

## Algebra 2 and Trigonometry

*Grade(s):* 11

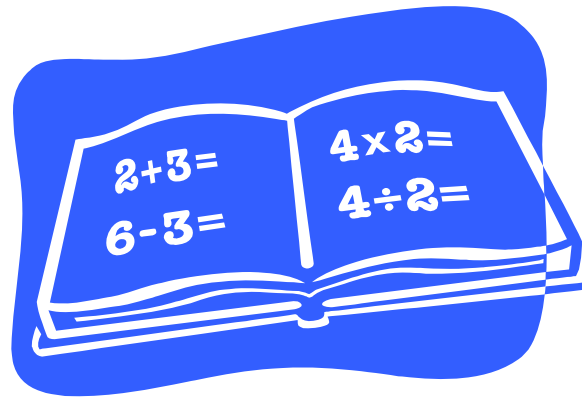
*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Integrated Algebra, Geometry

Algebra 2 and Trigonometry is the capstone course of the three units of Regents credits offered.

While developing the algebraic techniques that will be required of those students who continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Within this course, the number system is extended to include imaginary and complex numbers. The families of functions to be studied include polynomials, absolute value, radical, trigonometric, exponential, and logarithmic functions.



## uAlbany Calculus

*Grade:* 12

*Credit:* GMU: 1, University of Albany: 4

*Elective, Collegiate*

*Prerequisite(s):* Pre-Calculus or Teacher Recommendation

Students enrolled in this course should have successfully completed both the NYS Regents sequence and a Pre-Calculus course.

The course includes the discussion of limits, continuity, differentiation of functions, application of differentiation and integration.

Students may earn four college credits through the University of Albany for successful completion of this course.

This course is for students with higher than average mathematical ability and higher than average interest in mathematics.

## Math and Financial Applications

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* none

Business Math is a course in practical applications of mathematical skills as they are directly related to everyday purposes. Math applications include, but are not limited to: payroll and income, recordkeeping and budgeting, banking, accounts and investments, cash and credit purchases, vehicle housing and insurance costs, purchasing, production, sales, marketing and services.

## SAT Prep – ELA / Math

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* none

This course is designed to provide intensive review of the SAT Exam. Students will receive guidance on learning the language of the test and how best to think logically. Working on vocabulary, reading, composition, and logic and reasoning skills, students will practice the ELA skills and format before attempting to take the exam.

The mathematics content level of the SAT includes advanced topics from four mathematics content areas: Number and Operations, Algebra and Functions, Geometry and Measurement, and Data Analysis, Statistics, and Probability. Math SAT Prep will provide students opportunities to review concepts and try practice problems.

## uAlbany Elementary Statistics

*Grade(s):* 11, 12

*Credit:* GMU: 1, University of Albany: 3

*Elective, Collegiate*

*Prerequisite(s):* Integrated Algebra, Teacher Recommendation

This course will encourage active learning, conceptual understanding, genuine data, and use of technology.

Topics covered will include, but not be limited to data and variables, displaying and describing data, measures of center and spread, comparing distributions, graphical displays of association, sampling, designing studies, normal distributions, sampling distributions proportions, central limit theorem, confidence intervals, and tests of significance.

## Living Environment (Biology)

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Required, Regents*

*Prerequisite(s):* none

The Living Environment is a Regents course designed for first year high school students. The course examines the living portion of our environment through examination of topics such as biochemistry, ecology, cellular structure and function, genetics, evolution, botany, and the human body.

The final exam for this course is the NYS Living Environment Regents exam.

## Earth Science

*Grade(s):* 10

*Credit:* 1

*Required, Regents*

*Prerequisite(s):* Living Environment

In this course students investigate the scientific concepts, rules and principles which are associated with planet Earth as well as other celestial bodies.

Major units of study include; Astronomy, Earth's Landforms, Earthquakes and Volcanoes, Earth's Geologic History, Natural Resources, and Meteorology.

The final exam for this course is the NYS Physical Setting / Earth Science Regents exam.



## Regents Chemistry

*Grade(s):* 11, 12

*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Living Environment, Earth Science

Regents Chemistry is a course that addresses the basic concepts of matter and energy, as well as the interactions between them. Topics include atomic structure and bonding, acids and bases, and organic chemistry.

The final exam for this course is the NYS Physical Setting / Chemistry Regents exam.

## Non-Regents Chemistry

*Grade(s):* 11, 12

*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Living Environment,  
Earth Science

Non-Regents Chemistry covers many of the same areas as Regents Chemistry, but does not have a Regents exam or laboratory requirement.

## **Anatomy & Physiology**

*Grade(s):* 11, 12

*Credit:* 1

*Elective, Non-Regents, Online/Blended*

*Prerequisite(s):* Living Environment,  
Earth Science

This course provides an introduction to the structure and function of the human body through a systems approach. The first half of the course focuses on the studies of clinical terminology, cellular and tissue levels of organization, the biochemical basis of metabolism, and begins the study of the systems that provide support and movement and integration and control for the body. The second half of the course focuses on the studies of the Nervous System, Digestive System, Cardio/Circulatory System, Respiratory System and the Reproductive System.

## **Physics**

*Grade(s):* 11, 12

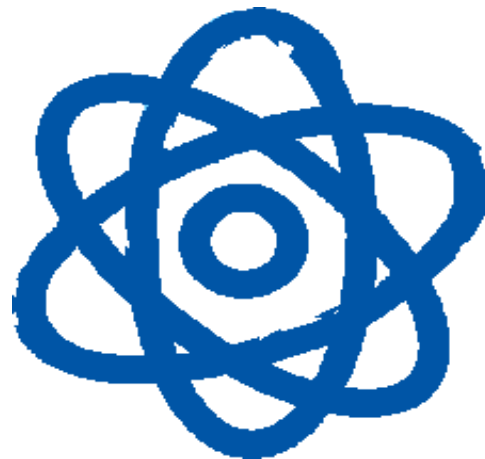
*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Living Environment,  
Earth Science

Physics is a study of the universe, from the smallest parts of matter (the particles that make up atoms) to the largest (galaxies and beyond). The study of the interactions of matter and energy will involve both experimental and theoretical approaches.

The final exam for this course is the NYS Physical Setting / Physics exam.



## **AP Biology**

*Grade(s):* 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* 85 or higher average in Living Environment and Chemistry,  
Teacher Recommendation

Advanced Placement Biology covers topics similar to Living Environment but goes far beyond it in level of detail. The course is designed for students who have achieved mastery level on the Living Environment Regents and are strongly considering majoring in Biology or a related field in college.

## Environmental Science

*Grade(s):* 11, 12

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* none

Understanding our impact on the world around us is both a natural curiosity and necessity. Through understanding the continuous cycles that replenish our soil, to the point source impact of pollution, understanding the complex environment is the only way to ensure future stewardship of the Earth.

This course will cover topics such as soil sciences, aquatics, wildlife and land use management, with a specific focus on how we are affecting each of these.

## Astronomy

*Grade(s):* 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Earth Science

Astronomy will expand upon the basic concepts presented in Regents Earth Science.

The course will cover topics ranging from the formation of the Universe, the Big Bang, to star formation and life cycle, to the Earth-Moon-Sun system, to Cosmology.

The course will be primarily discussion-oriented with selected projects and experiments.



## General Science

*Grade(s):* 9

*Credit:* 1

*Elective, Non-Regents*

*Prerequisite(s):* Teacher Recommendation

General Science is a preparatory course that will help students to develop basic skills prior to taking a Regents level science class. The course will explore all aspects of science in the primary areas of life and physical science.

Topics may include basic chemistry, life systems and Earth as a planet.



## High School Physical Education

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Required, Non-Regents*

*Prerequisite(s):* none

The High School Physical Education Program concentrates on fitness, lifetime activities, and teamwork. Activities in the weight room, with medicine balls, exercise balls, fitness testing and running work in developing fitness and lifetime activities.

Tennis, golf, archery, badminton and table tennis, Frisbee, lawn games and similar racquet sports meet the lifetime goals.

## Health Education

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Required, Non-Regents*

*Prerequisite(s):* none

Health Education is an ongoing course where students take three progressive classes. Health 7 introduces students to the components of health and teaches them life-skills such as decision making, goal setting, stress management, negotiation and communication skills. Health 10 will provide instruction in parenting education, interpersonal violence, consumer and environmental health as well as CPR/AED skills.

## Introduction to Sports Medicine

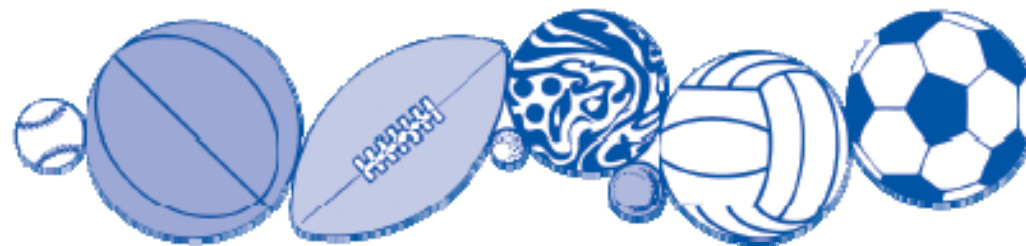
*Grade(s):* 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* Biology

This elective allows students to review anatomy and physiology learned in Biology and apply it to practical use. Through guest speakers, field trips and daily lessons, students learn how to treat athletic injuries, prevent injury, rehabilitate injuries as well as focus on career choices. This course is open to those interested in pursuing a career in the health field.



## **Fitness Training**

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.5

*Elective, Non-Regents*

*Prerequisite(s):* none

The High School Fitness Training is an alternative physical education class that is based on all aspects of fitness and weight training.

Students learn to lift properly and to lift for specific purposes. Aerobic training is taught on our treadmill, elliptical, and rowing machine. Students plot their progress each class.

Proper nutrition and use of supplements and their dangers as well as other fitness issues are discussed.

## **Self-Defense C.L.A.S.S.**

**(Children Learning Awareness, Safety & Self-defense)**

*Grade(s):* 8, 9, 10, 11, 12

*Credit:* 0.25

*Elective, Non-Regents*

*Prerequisite(s):* none

This secondary physical education curriculum for Middle School and High School students is specifically designed for students 14-18 years old concerning situations faced by this age group in today's society.

Topics include: Peer Pressure, Conformity, Sexual Harassment, and Approached by Strangers, Being Followed, Road Rage, Internet Safety, and step-by-step Physical Techniques appropriate for this age group.

Students will be taught self-confidence through conflict resolution, verbal and physical self-defense approaches.

This curriculum complies with the NASPE physical education standards.

## **Responding to Emergencies**

**(Children Learning Awareness, Safety & Self-defense)**

*Grade(s):* 9, 10, 11, 12

*Credit:* 0.25

*Elective, Non-Regents*

*Prerequisite(s):* none

This is an American Red Cross course in first aid, CPR and AED. It covers in-depth the skills necessary for any lay person to provide the most appropriate care possible to those who have suffered an accident, injury, or sudden illness.

Students are eligible for ARC certification upon successful course completion.

## Spanish 1

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Required, Non-Regents*

*Prerequisite(s):* none

This course is designed for students with no prior second language experience or students who did not successfully pass the NYS Proficiency Exam for Spanish.

Emphasis is placed on four areas: listening, speaking, reading, and writing. The communication approach is stressed with emphasis on real life situations and the ability to communicate meaningfully.

## Spanish 2

*Grade(s):* 9, 10, 11, 12

*Credit:* 1

*Required, Non-Regents*

*Prerequisite(s):* Spanish 1

This course is designed to use the Spanish language studied during Spanish 1. This is the next level of course studied after passing the NYS Proficiency Exam.

The emphasis of the course is placed on using the language for communication. Reading, writing, and listening skills are also enhanced.

Thematic units related to house and home, family, personal identification and others are taught with the use of role playing, videotaping, educational games, hands on projects and technology.

## Spanish 3

*Grade(s):* 9,10,11,12

*Credit:* 1

*Core, Regents*

*Prerequisite(s):* Spanish 1, Spanish 2

This course is designed to develop intermediate communication, reading, writing, and speaking skills through a variety of methods. This course will also foster a greater understanding and appreciation of cultures and peoples of the world. Opportunities may include skit videotaping, cooking, guest speakers, role-playing, educational games and technology.

The Comprehensive Regents Exam for Spanish is given at the end of the course.

**uAlbany College Spanish 4**

*Grade(s):* 11,12

*Credit:* GMU: 1, University of Albany: 3

*Core, Non-Regents, Online/Blended*

*Prerequisite(s):* Spanish 1, Spanish 2, Spanish 3

In Spanish 4, students start looking at the history of Spain and Latin America (11th - 20th centuries) more closely. Through the use of authentic texts and videos, students will explore the Reconquista, the Conquista of the Aztecs, the Mexican Revolution, and the Spanish Civil War. They will also be improving their knowledge of Spanish language by practicing various tenses as well as grammatical concepts.



# Graduation Requirements

## Regents Diploma

Subject Area	Credits
English	4
Social Studies	4
Mathematics	3
Science	3
Foreign Language	1
Art / Music	1
Health	0.5
Physical Education	2
Sequence / Electives	4
<b>Total Credits Required</b>	<b>22.5</b>

## Advanced Designation Regents Diploma

Subject Area	Credits
English	4
Social Studies	4
Mathematics	3
Science	3
Foreign Language	3
Art / Music	1
Health	0.5
Physical Education	2
Electives	2
<b>Total Credits Required</b>	<b>22.5</b>

### Required Exams

*Passing score of 65 or above*

English Language Arts
Integrated Algebra
Regents Global Studies
Regents US History
One Regents Science

### Required Exams

*Passing score of 65 or above*

English Language Arts
Integrated Algebra
Geometry
Algebra 2 / Trigonometry
Regents Global Studies
Regents US History
Two Regents Science
Regents Foreign Language

- The Regents Competency Test safety net for students with disabilities will continue to be available for students entering grade 9 prior to September 2010. Students using this safety net will receive a local diploma.
- Students acquiring a 5 unit sequence in art, music, or a vocational program may be exempt from the three unit foreign language requirement. These students must earn one credit in foreign language, either through a proficiency exam or by a high school course credit.