

2 0 1 2 - 2 0 1 3

CURRICULUM *Handbook*



- Graduation Requirements
- Diploma Requirements
- Course Levels
- Examinations
- Policies
- Course Descriptions



Guilderland

H I G H S C H O O L





► Table of Contents

Graduation Requirements3
 Diploma Requirements3
 Course Levels4
 Choosing a Level4
 Examinations5
 Advanced Placement
 Regents
 Local
 Policies5
 Auditing, Doubling, Course Drop/Add,
 NCAA Eligibility
 Course Descriptions
 Art Department 6-9
 Business Department 10-12
 English Department 12-16
 Mathematics Department 17-20
 Miscellaneous 20-21
 Music Department 21-23
 Physical Education Department 24
 Health 24
 Reading Department 24-25
 Science Department 25-27
 Social Studies Department 28-32
 Technology Education Department 33-35
 World Languages & Cultures Department .. 36-39

Course Offerings Key

In each department, offerings are listed by number, title, appropriate grade levels, ability rating (if applicable), reading level (if applicable), and type of final examination.

Course Number

Four-digit number assigned for use in the selection and scheduling process. The first digit indicates the department.

Course Title

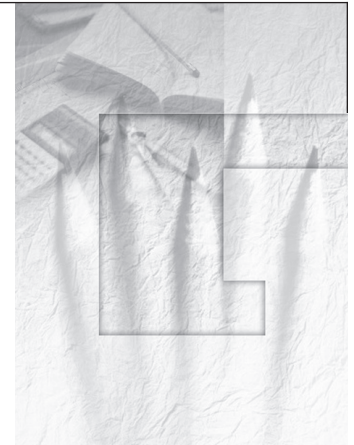
Regents titles are used when available. Locally prepared courses use descriptive titles representative of course content.

Credit Assigned

1/4, 1/2, 1, 2, or 4 “units of credit” are given upon successful completion of a course.

Grade Level

List of grade levels that may take the course.



Ability Levels

(see *Course Levels*)

- H** – Honors
- R** – Regents
- C** – Core

Reading Levels

(used whenever applicable)

- High
- Average
- Low
- Mixed

Examination

- AP** – Advanced Placement
- Regents**
- Local**

Prerequisites

Requirements for entry into the course.



Regents Examination Requirements

| Entering Freshman Class | Local Diploma Requirements* | Regents Diploma Requirements | Regents Diploma with Advanced Designation Requirements** |
|--|--|---|---|
| 2009 (current juniors) Class of 2013 | Available to students with disabilities who do not pass a required Regents exam, but pass the RCT. | Score 65 or above on 5 required Regents exams and earn 23 units of credit | Score 65 or above on 9 required Regents exams and earn 23 units of credit |
| 2010 (current sophomores) Class of 2014 | Available to students with disabilities who do not pass a required Regents exam, but pass the RCT. | Score 65 or above on 5 required Regents exams and earn 23 units of credit | Score 65 or above on 9 required Regents exams and earn 23 units of credit |
| 2011 (current freshman) Class of 2015 | Available to students with disabilities who score between 55-64 on required Regents exams. | Score 65 or above on 5 required Regents exams and earn 23 units of credit | Score 65 or above on 9 required Regents exams and earn 23 units of credit |
| 2012 (current 8 th graders) Class of 2016 | Available to students with disabilities who score between 55-64 on required Regents exams. | Score 65 or above on 5 required Regents exams and earn 23 units of credit | Score 65 or above on 9 required Regents exams and earn 23 units of credit |

To graduate from Guilderland High School, all students must earn 23 credits and pass the following five Regents exams: English, Global Studies, Integrated Algebra, Science, and US History.

* The low-pass option of scoring between 55-64 on the required Regents exams to earn a local diploma will continue to be available for students with disabilities.

**Students will be granted an Advanced Regents diploma by earning 23 credits and passing the following Regents exams: English, Global Studies, Integrated Algebra, Math B or Geometry and Algebra II/Trigonometry, 2 Science, US History, and World Languages and Cultures.

Course Credit Requirements for a Diploma

| Local or Regents diploma | SUBJECT AREA | Advanced Regents diploma |
|--------------------------|------------------------------|--------------------------|
| 4.0 | English | 4.0 |
| 4.0 | Social Studies | 4.0 |
| 3.0 | Math | 3.0 |
| 3.0 | Science | 3.0 |
| 1.0 | World Languages and Cultures | 1 - 4.0** |
| 1.0 | Arts | 1.0 |
| 0.5 | Health | 0.5 |
| 2.0 | Phys. Ed. | 2.0 |
| 4.5 | Electives | 1.5+ |
| 23.0 | TOTAL | 23.0 |

** Students who earn 5 units in occupational studies or the arts may be exempted from the 3-4 unit requirement in World Languages and Cultures and the Regents exam. However, they would have to earn at least one unit in World Languages and Cultures either by passing a high school World Languages and Cultures course or passing a proficiency exam.



Course Levels ◀

Advanced Placement and College Level Courses

College-level courses prepared by the College Entrance Board and local colleges (SUNY, SCCC, HVCC and Syracuse) are offered at the high school. Successful completion of the course and appropriate exams, in addition to payment of tuition fees by the student, entitle the student to credit for the course at the participating college. Advanced Placement tests are given in mid-May. These AP tests are open to any college-bound student for a nominal fee. Seniors are encouraged to discuss taking these AP exams with their school counselor. Many colleges give credit toward graduation to students who achieve high scores on AP or college written tests. Complete

information on the AP program and on the college courses offered is available through the school counselor.

Honors Courses (H)

Honors level courses are designed to challenge students by providing enrichment through in-depth study. Emphasis is placed on the quality of achievement. Students in honors level courses will take Regents examinations whenever they are offered in that subject.

Regents Courses (R)

Courses at this level meet the New York State Regents standards. Average to above average students successfully completing these courses are well prepared to pursue higher education.

Core Courses (C)

Core level courses meet the needs of students who study the material included in the Regents level courses, but who would benefit from smaller classes or more emphasis on specific skills.

Co-Taught Courses

Co-taught courses are core level courses taught by both a subject area teacher and a special education teacher. These courses are designed for students who would benefit from smaller classes, more emphasis on specific skills, and from increased direct contact time with a teacher.

Choosing a Level ◀

Most students are enrolled in Regents level courses. Assignment to Advanced Placement, Honors, and Core level courses is based on abilities and skills evidenced by standardized tests, achievement in previous courses, and teacher/counselor recommendations.

Student evaluation is a continuous process. Due to the differences of abilities, interests, and needs within individuals, students may be placed in different levels for different subject areas. The instruction level of the course is noted on the report card, the permanent record card and transcript.

Requests for a change of level in any area in which a student, parent, or teacher sees a need for relocating the student must be done through an application. Information regarding the process is available from the school counselor or department supervisor.



Examinations

Advanced Placement Examinations

These college-level tests are given in May and are open to all students; however, there are special classes for most students who take these tests. Test results are generally received by the school in July and therefore are not computed into a student's final class average. Depending on the respective college policy, students may

receive college credit for successful completion of an AP course.

There is a student fee payable to the College Entrance Board of approximately \$86 per examination.

Regents Examinations

All students enrolled in Regents classes take these tests, which are prepared by the New York State Department of Education.

Local Examinations

These tests are locally prepared examinations, which are approved by the curriculum supervisors in the respective department and are used whenever Regents examinations are not specifically offered.

Policies

Auditing a Course

A course audited is listed on the permanent record card as an "Audit" with no credit issued. Students may audit courses under special circumstances. The "Audit Course Request" form is available from the counselor and must be signed by the student, parent and department supervisor prior to the beginning of the course. Students requesting to audit a course are expected to complete all of the work assigned.

Doubling

In grades 9-11, students may not take two courses simultaneously in the same academic area where one is the prerequisite for the other. An exception is made for the "bona fide" accelerated student and for physical education make-up.

Course Drop/Add

All the underclassmen may drop a course only if it is replaced by another course. Such course changes must be made before the class meets for the fourth time. This policy will also apply to seniors carrying a six- class load.

Seniors carrying more than the minimum may drop a non-required class anytime before the course half-way point without penalty. Courses dropped after this will be recorded as DF and a grade of 60 will be used to determine the student's rank and average. Seniors carrying a minimum course load may add another class as long as this is done before the fourth meeting of the added class or later with teacher permission.

NCAA Eligibility

The NCAA has strict academic eligibility requirements for prospective students/athletes to participate in Division I and II intercollegiate athletics. It is advised that high school students and their parents review these requirements at www.ncaaclearinghouse.net.

The following courses will not meet the NCAA requirements for English:

- Arts/English
- Cinema as Literature
- Independent Study English
- Journalism
- Screenwriting
- Writing in Multimedia

The following courses will not meet the NCAA requirements for math:

- Accounting/College Accounting
- Applied Math 1
- Applied Math 2
- Non-Regents Algebra 2 & Trig.
- Non-Regents Geometry
- Computer Programming
- Computer Science (AP)



Art

5002 Studio in Art

| | |
|----------------------|----------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Mixed |

This is a full year foundation course with an emphasis on studio problem based learning activities that explore the electives of the Art Department. Students will be working on a variety of project-based activities utilizing a variety of mediums, such as: pencils, charcoal, pastels, water-colors, acrylic paints, pen and three dimensional materials. Students will be required to demonstrate creativity, innovation and problem-solving skills using critical thinking and higher order thinking. Students will be expected to communicate and collaborate regularly regarding their art work and presentation of which will take place reiterating basic and digital literacy skills. At the end of this course students will be able to: identify the Elements of Art and Principles of Design; demonstrate their creative and personal artistic expression, demonstrate the ability to be independent and self-directed learners, develop an appreciation for the history of art and art related careers, demonstrate an understanding of global and aesthetic awareness. Students will be required to maintain a sketchbook throughout the year. This is a required course for a five-unit sequence and meets the Fine Arts requirement for graduation.

5022 Arts Exploration

| | |
|----------------------|----------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Mixed |

This course will explore design and creative opportunities using a variety of materials. Students will learn how to compose a piece of art work using the Elements of Line, Color, Shape, Texture and Space arrangement. Emphasis will be placed on creating works using traditional and contemporary techniques in a two and three dimensional format that promote problem solving, aesthetic awareness, global awareness, collaboration, self-direction and craftsmanship. Art forms students may explore include Drawing, Painting, Ceramics, The Three Dimensional Arts, The Electronic Arts, Printmaking and Textile Arts. Basic Digital and Formal Literacy's will be reinforced. At the end of this course students will be able to: execute projects using the appropriate tools and techniques for an assigned medium; identify art forms from past and present cultures; prepare, present and display finished artwork. This is a full year foundation level course designed for a students seeking to meet their fine arts graduation requirement. Students wishing to pursue a sequence in art must take a full year of Studio in Art.

5102 Drawing and Painting

| | |
|--|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: 80% average in Studio in Art and Teacher recommendation with student contract | |
| Reading Level: Average/High | |

This is a full year course recommended for prospective art majors and is devoted to advanced exploration and experimentation in drawing and painting media, along with developing considerable efficiency in one or more major media. At the end of the course the student will be able to: demonstrate increased skill and knowledge of various paint medium such as ink washes, water color, mixed media, and acrylics; demonstrate a more extensive understanding of the art process by virtue of using rough sketches, visual research, and extensive planning to complete several projects; exhibit improvement in visual fundamentals such as lighting, perspective and proportion as well as new concepts of chiaroscuro and foreshortening; identify various artists by their style, use these styles to correlate compositional discoveries in their own work; prepare, present and display finished art work.

5242 Sculpture

| | |
|---|---------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: 80% average in Studio in Art or Arts Exploration | |
| Reading Level: Average | |

This course explores the elements of shape and form through the creation and development of three Dimensional art works. Students will be exposed to a number of past and present sculptors. At the end of this course the student will be able to: demonstrate self-expression through the use of a variety of materials such as clay, wood, wire, paper mache, natural and found objects; demonstrate the technique of carving, modeling, casting, and assemblage; develop problem solving skills when working from historic sculptural works to create their own works; acquire a greater understanding of sculpture's role in our society and environment; and prepare, present and display finished art work. This is a hands-on course that requires the student to actively participate and self-evaluate on a daily basis.

5122 Advertising Design

| | |
|---|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: 80% average in Studio in Art and/or teacher recommendation with contract | |
| Reading Level: Average/High | |

This full year course emphasizes commercial design elements of visual communication with the intent to expand students'

media and design literacy as well as explore the role Media plays in shaping cultural and social attitudes. Students will explore the fundamentals of industry standard software, such as Adobe Illustrator and Adobe Photoshop, to create corporate identity systems, poster designs, photo layouts and various illustrations. A component of this course features the development of television commercials from storyboarding to production. At the end of this course, students will be able to practice presenting and displaying finished art work.

5132 Creative Ceramics 1

Grade: 10, 11, 12 20 weeks
Exam: Local Offering: One semester
Prerequisites: 80% average in Studio in Art or Arts Exploration
Reading Level: Average

This course is designed to introduce students to the basics of ceramics and the techniques of rendering in a three-dimensional space. The students will learn various hand-building techniques associated with the medium of clay. Throughout this course students will be able to focus on the technical, historical, aesthetic, cultural and contemporary concerns of clay workers and sculptors of past and present to assist in shaping their own personal style. At the end of this course the student will be able to: demonstrate the numerous clay techniques and processes used in working with clay; acquire and apply vocabulary of clay usage and properties; research and study ceramic techniques and firing methods; evaluate pottery and sculpture according to its craftsmanship, function and technique; collaborate with their peers; demonstrate analytical skills towards the success of a three-dimensional form and its aesthetic qualities; continue to use innovative and critical thinking skills to navigate through the ceramic process; and prepare, present and display finished art.

5142 Creative Ceramics 2

Grade: 10, 11, 12 20 weeks
Exam: Local Offering: Spring semester
Prerequisites: Creative Ceramics 1
Reading Level: Average

This course is designed to further explore the techniques and concepts introduced in Creative Ceramics 1. At the end of this course the student will be able to: understand and self evaluate at a higher skill and technical level, all aspects of clay preparation, clay construction and glazing applications, of which will be incorporated into a series of five pieces that reflect a common theme; prepare, present and display finished art work.

5162 Cartooning

Grade: 10, 11, 12 20 weeks
Exam: Local Offering: Fall Semester
Prerequisites: 80% average in Studio in Art or Arts Exploration
Reading Level: Average

This 20 week course focuses on the development of cartoon characters and storylines. Students will be self-directed in researching, designing, creating and manipulating their characters in a variety of mediums including: traditional two-dimensional pencil and ink, computer rendering and three dimensional constructions. Students will problem solve independently and collaboratively to hypothesize, experiment, critically think and construct their ideas through project based learning. At the end of this course the student will be able to: demonstrate a progression from portrait and figure proportions to exaggerated expressions and figures; demonstrate effective cartoon lettering and perspective to supplement their action figure; create recognizable characters of famous people; produce professional style comic strips, single panel cartoon and graphic novel pages prepare present and display finished art work.

5172 Animation

Grade: 10, 11, 12 20 weeks
Exam: Local Offering: Spring Semester
Prerequisites: Cartooning Reading Level: Average

This course focuses on the movement and filming of characters, cartooning and storylines using traditional and digital media manipulation techniques. Students will imagine, communicate, experiment, and synthesize their ideas through digital literacy. At the end of this course students will be able to demonstrate a progression from fundamental movements of squash and stretch and metamorphosis, to complex character walk cycles; be introduced to complex character walk cycles; be introduced to the animation software Macromedia Flash, Blender, Maya; complete individual animations, from concept to drawing to sound, to final animation; and prepare, present and display finished art work.

5112 Art History

Grade: 11, 12 20 weeks
Exam: Local Offering: One semester
Prerequisites: None
Reading Level: Average/High

This course is designed to provide students with a comprehensive study of Art History. Students will be introduced to a variety of artists and styles of art spanning from the Pre-Historic era to Modernism. At the end of this course students will be able to identify periods of art history and specific pieces of work, and to look at works critically and analyze what they see. Students will find this course beneficial in providing a balanced view of interrelated artistic, philosophical and political histories.

5005 Advanced Studio in Art

Grade: 10, 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: 80% average in Studio in Art or Arts Exploration and teacher recommendation
 Reading Level: Average/High

This course is for the artistic minded art student. Students in this course are motivated and demonstrate ability and talent in the visual arts. They are looking to refine and further develop their skill in the Two and Three-Dimensional Arts and the Electronic Arts before moving on to an advanced elective. Students will be exposed to project based- problem solving activities. Creativity, innovation, responsibility, independence and self-directed learning will be pushed and explored. Student's will be expected to further develop Conceptual ideas through advanced understanding of the Elements of Art and Principles of Design. At the end of this course students will be able to; demonstrate critical and higher order thinking skills; execute and solve problems through the creative process; articulate and communicate their personal expression in the visual arts; identify various artist styles and art historical periods; present the beginnings of the portfolio development process; prepare, present and display finished art work.

5171 Advanced Animation

Grade: 10, 11, 12 20 weeks
 Exam: Local Offering: Spring semester
 Prerequisites: Animation
 Reading Level: Average

This 20 week course explores additional media used in Animation. Students will be aware and use creative problem solving skills including: communication and collaboration, critical thinking and creative/innovative problem solving. The media arts room and projects will entitle us: flexibility and adaptability, to be innovative and self directed, to be aware of social and cross-cultural skills; to enhance our productivity, leadership, accountability and responsibility. At the end of this course, students will be able to work independently during the class period, undertake and create a series of animation pieces related to their individual style of work, demonstrate self-motivational skills and the completion of long-term goals and choose from creative and advanced styles of animation, such as Paper/Cell Animation, Computer Animation and Clay-mation.

5202 Advanced Art 1

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: 80% average in Drawing & Painting and Studio or teacher recommendation
 Reading Level: Average/High

This is a full year course with emphasis on moving towards self-directed projects and portfolio development. Students will create works based on the understanding of architectural space, sculptural form as they apply to interior, exterior, still

life and figurative compositions. The use of digital resources will be discussed and used as it relates to the application of the students individual projects. At the end of this course the student will be able to demonstrate drawing and painting techniques in various artistic styles; plan and move towards self evaluation in what becomes the final expression of the materials suited to their individual techniques and skill; produce 10-12 portfolio ready pieces that encompass both breadth and thematic images.

5212 Advanced Art 2

Grade: 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Advanced Art 1, with a grade of 85% or teacher recommendation
 Reading Level: Average/High

This is a full year course for the self-directed student emphasizing continued development of a college portfolio. At the end of this course students will be able to: develop a body of work that demonstrates additional risk taking and problem solving in technical and expressive modes of making art; They will visually communicate and adapt one or more of the following areas: abstractions of mechanical objects, psychological imagery, architectural space and social concerns; and prepare, present and display finished art work.

5201 (AP) Advanced Placement in Studio Art

Grade: 12 40 weeks
 Exam: AP Exam Offering: Full year
 Prerequisites: 85% average in Drawing & Painting, Studio and Advanced Art
 Reading Level: Average/High

This course is part of the College Board Program giving students the opportunity to pursue college-level studies while in high school and receive advanced placement or credit upon entering college. This credit applies to those attending non-art schools and seeking a non-art degree. The course is designed as an intensive one-year program, or may be extended over a two year period of Advanced Art in the junior year and AP in the senior year. Students need to be self motivated and able to set long term goals. Strictly mandated is an established portfolio with a minimum of 12 images reflecting the student's breadth of experiences with a variety of materials and techniques. These images should be thoughtfully planned and complete. It is strongly recommended that the students contact the teacher prior to enrollment as the instructor needs to review the portfolio. Upon completion of a satisfactory portfolio, the student will then pursue completion of a concentration. A concentration is a body of related works based on an individual's interest in a particular idea expressed visually. The process focuses on personal artistic investigation, growth and discovery.

Art, continued

5173 Studio in Film

Grade: 10, 11, 12 20 weeks
 Exam: Local Offering: Spring semester
 Prerequisites: 80% average in Studio Art or Arts Exploration
 Reading Level: Average

This course will focus on creative film making. Students will become engaged with the artistic language of film. Through a variety of visualization exercises students will learn story telling and expression as they develop their skill with the camera. Students will be producing and editing their own film concepts which can range from narrative to abstract pieces. Emphasis will be placed on learning computer editing, lighting, sound, technical camera skills and collaboration in project based learning. Students will be self-directed in imagining, experimenting and producing short and long sequenced films. They will problem solve using media and digital literacy. At the end of this course students will have written, shot and edited a five to ten minute video.

7772 Introduction to Photoshop

Grade: 10, 11, 12 20 weeks
 Exam: Local Offering: One semester
 Prerequisite: Studio in Art or Arts Exploration
 Reading Level: Average

Students in this course will create their own images by exploring the sophisticated elements of Adobe Photoshop CS 4 for both fine art and graphic purposes. Students will develop an understanding of how Adobe Photoshop can be used as a tool to demonstrate a global and aesthetic awareness of ideas relating to contemporary art, art historical movements and personal subject matter. As students move through the course they will be expected to demonstrate advanced Digital Literacy Skills through the use of advanced levels of image editing, color management and photo manipulation.

7663 Digital Photography 1

Grade: 10, 11, 12* 20 weeks
 Exam: Local Offering: Both semesters
 Prerequisites: None Reading Level: Average
 * Preference first to students in grade 12, then to students in grade 11, last to students in grade 10

This course will introduce students to the elements of photographic composition, SLR camera functions, various natural lighting techniques, and general traditional and digital photography techniques. Students will use Photoshop to touch up, enhance, collage, manipulate and create original and existing photographic images into professional compositions. Students will be encouraged to experiment, collaborate and design photographs through project based learning. They will shoot, analyze, reflect and critique their photographs individually and as a group. Students will mat some of their best and larger format prints for displaying and showings. Students will be required to compose and maintain a quality photographic binder of individual works. It is recommended that each student have his or her own digital camera, although it is not required.

A \$25 lab fee is required to cover expenses associated with printing.

7763 Digital Photography 2

Grade: 10, 11, 12* 20 weeks
 Exam: Local Offering: Spring semester
 Prerequisites: Digital Photography 1
 Reading Level: Average
 * Preference first to students in grade 12, then to students in grade 11, last to students in grade 10

This course is designed for students who are motivated and inspired to pursue digital photography. Students will explore further studies in composition, lighting techniques, and other related topics. Students will be encouraged to refine their camera and software editing skills. Students will design and develop a quality portfolio of works with an emphasis on presentation techniques. It is recommended that each student have his or her own camera.

A \$25 lab fee is required to cover expenses associated with printing.

Business



6002 Career and Financial Management

Grade: 9, 10, 11, 12 Offering: One semester
 Exam: Local Reading Level: Mixed
 Prerequisites: None

Learn about the features of our economy, explore a variety of careers and develop skills along with competencies needed for success in the 21st century workplace. You will upgrade your financial savvy. Steer your course to successful adulthood with lots of practical, hands-on projects.

6042 College Keyboarding

Grade: 9, 10, 11, 12 Offering: One semester
 Exam: Local Reading Level: Mixed
 Prerequisites: None

In today's information age, keyboarding is a life skill which has value for all students. Get rid of bad habits that will eventually slow you down, max your speed and accuracy by developing proper keyboarding and formatting techniques using keyboard-coaching software that allows you to work at your own pace. After taking this course, enjoy being able to type at killer speeds and quickly complete any keyboarding intensive task. Learn proper formatting of professional documents to prepare you for your future. (Students may opt for Satisfactory/Unsatisfactory grading scale.)

6092 Personal Finance

Grade: 11, 12 Offering: One Semester
 (Preference to Seniors) Exam: Local
 Prerequisites: None Reading Level: Mixed/High

How does the consumer drive the American market? Which budgeting, saving, and investing habits ensure a financially secure adulthood? Study the fundamentals of economics in order to make rational economic choices of your own. Learn about employment laws and issues, banking, budgeting, investing, insurance, credit, bankruptcy, and responsible financial management. This course fulfills the Economics graduation requirement.

6122 Marketing

Grade: 10, 11, 12 Offering: Full year
 Exam: Local Reading Level: Mixed/High
 Prerequisites: None

Designed to teach students about one of today's fastest growing and most exciting fields. This course provides an excellent opportunity to explore the effects of the marketplace on our economy. If you are planning a career in business administration, marketing, advertising, retailing, or would like to own/operate your own business one day, this course is for

you! Learn about current trends in marketing as you develop your decision making skills while completing hands-on projects. This is an excellent course for those who have an interest in pursuing business and marketing studies in college. You can earn 3 transferable college credits from SCCC (Marketing).

6162 Corporate Law

Grade: 10, 11, 12 Offering: One semester
 Exam: N/A Reading Level: Mixed
 Prerequisites: None

Develop important life skills as you study legal ethics, criminal law, civil law, court systems, trial procedures, problems in society, contract law, and legal aspects of starting a business. Study fascinating cases as you learn how American law affects your everyday life. You can earn 3 transferable college credits from SCCC (Business Law).

6172 Personal Law

Grade: 10, 11, 12 Offering: One semester
 Exam: N/A Reading Level: Mixed
 Prerequisites: None

Study and discuss fascinating cases involving consumer law, renting an apartment, buying a home, credit protection laws, bankruptcy law, insurance protection and health care issues. Emphasis is placed upon current and relevant topics that will enhance student understanding of legal aspects relating to real life. Through case studies and hands-on projects, with a lot of computer and internet use, students will examine some of the rights and responsibilities we have as individuals. Whether you may be interested in a career in law or you just want to make the most of your adult life, this is a course for you!

6372 Microsoft Office

Grade: 9, 10, 11, 12 Offering: One Semester
 Exam: N/A Reading Level: Mixed
 Prerequisites: None

Computer skills are imperative in the 21st Century. Students will build existing skills and progress to proficiency with multiple applications. Using the latest version of Microsoft Office (Office 2007) students will work with the office suite: Word, Power Point, Excel, Access and Publisher. You can earn 3 transferable college credits from HVCC (CMPT 125 - Personal Computer Concepts & Applications I).

6132 Sports Marketing

Grade: 9, 10, 11, 12 Offering: One Semester
Exam: Project Reading Level: Mixed
Prerequisites: None

This course explores the phenomenal growth of the sports and entertainment marketing. Through case studies and hands-on projects with a lot of computer and internet use, students will study the basic principles of marketing and business then apply them to past and present sports and entertainment promotions. Students will study promotion, product placement, endorsements, ethics, risk management and the economy. This is a fun and valuable course!

6182 International Business

Grade: 11, 12 Offering: One Semester
Exam: Local Reading Level: Mixed/High
Prerequisites: None

Are you interested in business and multi-cultural interactions? Are you wondering where your place will be in the 21st Century business world? Develop your global perspective as you study cross-cultural perspectives, international marketing, foreign exchange, international management and organizational structure, methods of expansion, and the operation of multinational corporations.

6232 Accounting I

Grade: 10, 11, 12 Offering: Full year
Exam: Local Reading Level: Average
Prerequisites: 2 yrs. HS Math

Develop real-life accounting skills while studying accounting systems. Learn the principles and procedures of double-entry accounting and develop practical skills using Microsoft Excel. This course fulfills the third unit of a 3-unit math sequence.

6231 College Accounting

Grade: 11, 12 Offering: Full year
Exam: Local
Reading Level: Mixed/High
Prerequisites: Regents Level & Teacher/Counselor Recommendation

Are you a college bound student interested in business, finance, economics or marketing? If so, this course is for you! Study principles of accounting and develop practical accounting skills using Microsoft Excel. Expand your ability to succeed in a college business program by learning the basics of the accounting cycle, financial statement analysis, and coverage of asset, liabilities and stockholders equity. You'll learn how to be a savvy investor, by analyzing corporations to determine whether they'll be a good investment for your stock portfolio! College Accounting also fulfills the third or fourth unit of math for GHS students. Students can earn 4 college credits. (HVCC, Financial Accounting, ACTG-110)

* This course is not approved as a core course by NCAA.

6142 College Preparation

Grade: 11, 12 Offering: One Semester
Exam: Project Reading Level: Mixed
Prerequisites: None

It is necessary for students to understand and be able to complete the requirements for entrance into college, as well as to be prepared to meet the requirements of college life. The first part of this course will provide strategies for gaining entrance into college. Each student will develop a portfolio throughout the course. The portfolio will include: selecting majors, identifying important college characteristics, researching various college options, and completing the steps of the college admissions process. Students will also learn test-taking tactics for college entrance assessments, such as the SAT's. The second portion of this course will address issues regarding college life. Students will learn effective transitioning techniques into college such as development of good study skills, discipline and goal setting, money management, as well as an understanding of academic, social and personal responsibilities.

6200 Real Life Math

Grade: 11, 12 Offering: Full year
Exam: Local Reading Level: Mixed
Prerequisites: 2 yrs. HS Math

This course is designed for students seeking a 3rd year of Math credit. This class furthers mathematical concepts and computational skills using practical business applications such as bank services, payroll, annuities, stocks and bonds, and business and consumer loans. Important financial literacy skills involving investing, saving for retirement, housing choices and other real-life situations form the basis for this course (College credit is available through SCCC).

6222 Entrepreneurship

Grade: 11, 12 Offering: One Semester
Exam: Local Reading Level: Mixed
Prerequisites: None

Are you interested in management and/or running your own business? Would you like to create and market your own product(s)? This course emphasizes career and college readiness skills through bridging classroom instruction with business management concepts and real world business exposure opportunities. Students will partner with community businesses through direct interaction, the Junior Achievement program and the Web based entreskills program, sponsored through the NYS Small Business Development Center.

6303 Work Experience Program

Grade: 12 Offering: One Semester
Exam: Project Reading Level: N/A
Prerequisites: None

How can you put yourself ahead of your peers when entering the workforce? You can do it by earning a Certificate of

Employability. Do you feel like you learn best while working? Did you realize that you can earn high school credit for work experience? The seminar portion of this course develops your goal setting, decision making, job preparation, workplace communication, interpersonal and problem solving skills while you study work relationships and learn to keep them positive and professional. Apply newly learned skills and dispositions at your workplace. Reflect on your work experience with your classmates back at school. Earn a Certificate of Employability demonstrating achievement in “soft skills” essential for success in the workplace. This Certification can be used when applying for new jobs/careers to demonstrate your workforce readiness skills and abilities. This program is sponsored through the Schenectady Chamber of Commerce.

Students who plan to enroll in Work Experience Program must meet the following criteria:

- *MUST provide their own transportation to employment site.*
- *New York State requires students to complete a requirement of a minimum of 150 hours of work.*
- *Employment pay-stubs are required in order to receive credit for the course.*
- *New York State requires students to complete a requirement of 27 hours of classroom instruction. Students must achieve 90% attendance levels to earn their certification.*
- *This course is offered only as a Satisfactory/Unsatisfactory grading scale*

6313 Career Exploration Internship Program (CEIP)

| | |
|----------------------------|-------------------------------|
| Grade: 12 | Offering: One Semester |
| Exam: Project | Reading Level: N/A |
| Prerequisites: None | |

What is it like to be an accountant, doctor, graphic artist, auto mechanic or physical therapist? Why not find out before going off to college or starting a career. Career Exploration In-

ternship Program (CEIP) is a non-paid internship experience that provides a link between school and career options. CEIP provides valuable hands-on experience in a variety of career choices. Working alongside their mentors, students discover the varying aspects of a prospective career, while learning what specific skills and education are needed for success. By interning in the professional world, students gain an understanding of the importance of positive work ethics, timeliness, and good study habits. In addition, they will have an opportunity to improve team work and human relations skills. Other career related topics such as resume writing, interviewing tips, teamwork, time-management and health & safety in the workplace are introduced during the classroom component of the program. Emphasis is placed on strengthening written and oral communication skills needed in the workplace. CEIP was developed cooperatively between the New York State Education Department and the New York State Department of Labor and fulfills a ½ unit of credit toward graduation.

Students who plan to enroll in CEIP must meet the following criteria:

- *MUST provide their own transportation to off-site internship assignments.*
- *No more than five referrals for violation of GHS Code of Conduct in their junior year. Appeals may be considered on an individual basis.*
- *No more than 20 absences and/or tardies in their junior year. Consideration may be granted to students with extenuating circumstances.*
- *Parents and students will sign a contract documenting their understanding of the course expectations.*
- *New York State requires interns to complete a requirement of 54 hours of on-site internship.*
- *New York State requires interns to complete a requirement of 27 hours of classroom instruction. No more than 8 hours of classroom instruction may be missed.*
- *This course is offered only as a Satisfactory/Unsatisfactory grading scale.*

English



The English Department strives to fulfill New York State’s charge that all students work toward college and career readiness, as defined by the new Common Core Learning Standards. The literacy expectations of the CCLS focus student achievement in the English Language Arts on developing skill in reading, writing, speaking and listening, and language.

Guilderland students study a wide range of texts, both fiction and non-fiction. Through reading, writing and discussion, all students will develop a broad perspective, reconcile multiple interpretations of a text and become

critically aware of the aesthetic qualities of language and literature. Students at each grade level will have experience with challenging texts in order to develop their reading skill and deepen their understanding of and appreciation for the role that literature plays in our lives. Additionally, students will study the structure of argument and become skilled at presenting their ideas in a thoughtful and effective manner, whether in writing or in speaking.

0102 English 9 Regents

| | |
|---------------------|------------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Average |

Through reading and writing in a variety of genres, students will study the role of language and the implications of audience, purpose and context. Direct instruction in writing research reports, reviews, literary essays and original literary texts will be provided, along with a formal speaking opportunity. Students will use journals or writing notebooks to keep track of their learning. They will study *Romeo and Juliet* and *Of Mice and Men*, among other titles.

0103 English 9 Core/Co-ALPS

| | |
|--|---------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Teacher/counselor recommendations | |
| Reading Level: Average with support | |

The same curriculum described for English 9R will be presented, though smaller classes and a slower pace will allow for a more individualized approach. Sections of Co-ALPS are co-taught, with an English teacher and a Special Education teacher working as team, and students will be enrolled by recommendation.

0101 English 9 Honors

| | |
|--|---------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 8 and recommendation of 8th grade teacher | |
| Reading Level: Challenging | |

This course is designed for those students who love to read and write. An honors level student actively seeks a challenge, values academic rigor and demonstrates a mature work ethic. Students in 9 Honors will complete the 9th grade Regents curriculum as well as additional challenging required readings and projects.

0120 English/Global History 9X

| | |
|--------------------------|----------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 8 | Reading Level: Mixed |

This interdisciplinary course helps students develop a keen awareness of the cultural richness of Africa, China, South Asia, Japan, India, the Middle East and Latin America. While completing the Global History I course, students will explore the art and literature of these regions through challenging readings, presentations, creative writing and research projects. This course may be taken for Honors credit. Assignment to the "X" program is based upon a lottery.

0212 English 10 Regents

| | |
|--------------------------|------------------------|
| Grade: 10 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 9 | Reading Level: Average |

Through reading and writing in a variety of genres, students will study how genre, form and technique shape a text and its ideas. Direct instruction in writing feature articles, persuasive multiple source papers, editorials, literary essays and original literary texts will be provided. Students will use journals or writing notebooks to keep track of their learning. They will study *I Know Why the Caged Bird Sings* or *Black Boy* and *Julius Caesar* or *Hamlet*, among other titles.

0203 English 10 Core/Co-ALPS

| | |
|-------------------------------------|---------------------|
| Grade 10 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 9 | |
| Reading Level: Average with support | |

The same curriculum described for English 10R will be presented, though smaller classes and a slower pace will allow for a more individualized approach. Sections of Co-ALPS are co-taught, with an English teacher and a Special Education teacher working as team, and students will be enrolled by recommendation.

0211 English 10 Honors

| | |
|--|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 9R or 9H and teacher recommendation | |
| Reading Level: Challenging | |

This course is designed for those students who love to read and write. An honors level student actively seeks a challenge, values academic rigor and demonstrates a mature work ethic. Students in 10 Honors will complete the 10th grade Regents curriculum as well as additional challenging required readings and projects.

0213 English 10 Focus Regents**0214 English 10 Focus Core**

| | |
|--|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Teacher/Counselor recommendations | |
| Reading Level: Mixed | |

Emphasis in this course is placed on reading, writing and thinking with plenty of practice in all three. Classic literature and popular young adult titles will be studied. Consideration is provided for individual learning styles, in a small, supportive environment.

0200 English/Global History 10X

| | |
|------------------------------------|--------------------------|
| Grade: 10 | 40 weeks |
| Exam: Global Regents and Portfolio | |
| Offering: Full year | Prerequisites: English 9 |
| Reading Level: Mixed | |

This interdisciplinary course explores the relationship between literature and history. Students examine social studies units in depth, using fiction, poetry and nonfiction to deepen

0413 College Writing

| | |
|---------------------------|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: English 11 | Reading Level: Average |

Students will gain competence in many modes of writing. By drafting, conferencing, revising, editing, and by learning strategies for each, students will become more competent writers. This course may be taken for Honors credit. This course will fulfill the Senior English writing requirement.

0502 Creative Writing**0501 Creative Writing – Honors**

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

Class activities in this half-year course include daily writing in a journal as well as intensive work on completing finished pieces in a variety of genres, but with primary emphasis on poetry and song. Students share their works with others in the class. This course may be taken for Honors credit. This course will fulfill the Senior English writing requirement.

0512 Cinema as Literature

| | |
|---------------------------|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: Local | Offering: Both Semesters |
| Prerequisites: English 11 | Reading Level: Average |

Much of today's information and entertainment is provided through the medium of film. This course is devoted to the study of movies and how they communicate. Comparison of literary and cinematic versions of stories is a part of this course. A significant amount of reading and writing is required as well as class time viewing, discussing, and creating movies.

0603 0604 0605 Journalism I, II, and III**0606 0607 0608 Journalism I, II, and III–Honors**

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

In this course sequence, students will study scholastic and professional media publications to inform their creation of work for Guilderland High School publications. Specifically, students will practice, develop and apply a number of literacy skills. In reading and writing, students will work with news, feature, sports, column, editorial, commentary, and creative writing forms. In addition, students will be exposed to skills that support understanding of narrative through the practice of multimedia storytelling, including recording and editing audio interviews, creating photographic stories, and capturing video footage. Throughout this process students will practice the verbal communication and cooperative leadership skills essential to individual and organizational success of professional publications. This course may be taken for honors credit.

0702 Public Speaking

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

This course helps students overcome self-consciousness, think clearly and logically, listen critically, and learn to speak formally with effectiveness and integrity. Students will speak frequently on a wide variety of topics and for many purposes.

0722 Shakespeare

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

Students in this course engage in the study of Shakespeare's work by playing with moments and scenes from Shakespeare's plays. No acting experience is necessary! Through playing a Shakespearean role, students learn how to speak Shakespeare's English, how to understand his characters, and how to help an audience feel the power of his ideas. Students submit periodic written reflections about their process of making sense of Elizabethan language, of making sense of the Shakespearean characters they are playing, and of making sense of Shakespeare's themes not only in his plays, but also in the hallways of Guilderland High School and wherever else they see his themes being lived out today.

0712 Literature of Social Injustice:**0711 Literature of Social Injustice – Honors**

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both Semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

This is a writing-intensive, experience-based course in which students will study several groups of oppressed people. Students will explore aspects of diversity and tolerance through a variety of activities. Issues will be examined through literature, writing, field trips, research, and guest speakers. Topics such as poverty, disabilities, and gender will be explored. The course will fulfill the Senior English writing requirement.

0612 Arts/English**0611 Arts/English – Honors**

| | |
|---------------------------|----------------------------|
| Grade: 12 | 40 weeks |
| Exam: Local | Offering: Full Year |
| Prerequisites: English 11 | Reading Level: Challenging |

Students will explore ideas of beauty and art across cultures through literature, film, paintings, music and dance. Artistic decisions and the effects of those choices on audiences will be studied. For example, the literary artistry of Toni Morrison may be examined through a study of her works. The films of Australian filmmaker Jane Campion or the English/Indian collaboration of Merchant-Ivory-Jhablava as well as many fine Japanese and Chinese films would be very fertile areas for our

time. Outsider art/folk art, women in art, censorship of art as well as some traditional movements/periods in art will provide some of the topics for study. The art of the Native American storyteller/writer will be studied through the works of writers such as Joy Harjo, Louise Erdrich, and Ray Young Bear. South African poet/painter Breyten Breytenbach, as well as other African writers, will be read and discussed. The music and dance and writings of the Harlem Renaissance period in the U.S. will be explored. It is hoped there will be “ongoing interaction” between students and “the real world of artists” with people coming here and students “going there”. Students will be involved in all types of artistic projects from writing scripts/poetry/short stories to becoming experts on various artists and their cultural works. The opportunities for creativity and serious writing and study and exhibitions will be abundant in this course.

0811 English 12AP Literature & Composition

| | |
|--|----------------------------|
| Grade: 12 | 40 weeks |
| Exam: AP | Offering: Full year |
| Prerequisites: English 11AP/Honors or Regents Level and teacher recommendation | Reading Level: Challenging |

AP is a course emphasizing critical reading in literature and writing about literature and related ideas. It is for students capable of doing college-level work in English while they are in high school, who are willing to devote the energy necessary to complete a rigorous and demanding course designed for the college-bound student. The short-term goal is to enable students to demonstrate their achievement in college-level work by taking the Advanced Placement English Examination in Literature and Composition. The more important long-term goals of the course are to enable students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success, not only in college but also in the business and professional world; and to cultivate habits of reading, writing, and thinking that characterize life-long learning and enjoyment. It is expected that students will sit for the AP exam in May. Students will complete a summer project to prepare for this course. (Exam fee is approximately \$87.)

0801 SUPA English

| | |
|---|----------------------------|
| Grade: 12 | 40 weeks |
| Exam: None | Offering: Full year |
| Prerequisites: English 11/ Regents or Honors and teacher recommendation | Reading Level: Challenging |
| Tuition Cost: \$110 Per Credit | |

SUPA is Syracuse University Project Advance, a program through which Syracuse University classes are taught by adjunct professors on high school campuses. Syracuse University faculty consult on curriculum and grading issues and visit classes to interact with SUPA students. SUPA English is a full-year course (six Syracuse University credits) and consists of two semester-long courses (Practices of Academic Writing, WRT 105 and Narratives of Culture: Introduction to Issues

of Critical Reading, ETS 142), worth 3 credits each. Over the course of each semester in this rigorous course, students compile a portfolio of their work; grades are based on drafts, papers, informal writing and class participation. The first half of the course is a writing studio; the second half is fueled by class discussion of literature. There is no test associated with earning credit in SUPA English. Students are expected to enroll for Syracuse credit. Materials in SUPA English range from nonfiction (Freud, Marx, Jung) to contemporary fiction (Their Eyes Were Watching God, The Things They Carried, Be-loved), to contemporary film (Waiting for Guffman, Memento, Children of a Lesser God, Shrek, Willie Wonka and the Chocolate Factory) to fairy tales (“The Little Mermaid,” “Hedgehog Boy”) to readings of popular culture such as advertising and prime time television. (2011-12 tuition rate).

0403 English 12 Core

| | |
|---------------------------|------------------------|
| Grade: 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: English 11 | Reading Level: Average |

This course extends growth in reading, writing, speaking, and listening. Students will be involved in a variety of experiences and activities which will further their appreciation of reading and their effectiveness as writers. Attention is given to individual choice in reading and writing. Journal writing, as a tool to extend and enrich thinking about literature and life, is included as a part of this course.

0422 The Holocaust through Literature

| | |
|-------------------------------|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: Local | Offering: Both Semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

This is a reading-intensive course in which students will study the Holocaust through a variety of lenses. Students will study the Holocaust as it relates to victims, perpetrators, bystanders, resisters, and rescuers. Issues will be examined through literature, writing, field trips, research, and guest speakers.

0432 Writing in Multimedia

| | |
|-------------------------------|--------------------------|
| Grade: 11, 12 | 20 weeks |
| Exam: Local | Offering: Both Semesters |
| Prerequisites: English 10, 11 | Reading Level: Average |

Writing in Multimedia is a forum for students interested in writing for the purposes of publication. Students who are interested in journalism, creative writing, photography, video production, art, and design are encouraged to share their expertise and to experiment with all forms of literacy while they investigate the ways in which texts and images inform each other. Students are encouraged to write daily and submit their work for publication. A teacher maintained Web site (*Blackboard Learning Module*) provides the medium for daily activities. Though no computer experience is required, the class will make extensive use of technology. This course will fulfill the Senior English writing requirement.

* This course is not yet approved by NCAA as a core course.

0532 Screenwriting

Grade: 11, 12 20 weeks
 Exam: Local Offering: Both Semesters
 Prerequisites: English 11, 10 Reading level: Average

Students study the format, style and techniques of writing screenplays for feature films. Students will study several exemplary films; they will read and critique four full-length screenplays. Students will use what they have learned to write their own original full-length screenplay. This course will fulfill the Senior English writing requirement.

* This course is not yet approved by NCAA as a core course.

Mathematics

**2001 Integrated Algebra**

Grade: 9 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: 8th Grade Math and Teacher recommendation
 Reading Level: Average

Integrated Algebra is the first course in a three-year Regents sequence which culminates with the Integrated Algebra Regents Exam in June. Students will be expected to acquire and demonstrate mathematical problem solving skills and will be expected to identify and justify mathematical relationships. Topics will include equation solving, graphing, systems of equations, rational expressions, probability, and statistics. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2002 Integrated Algebra 2 year - Year 1

Grade: 9 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Teacher recommendation
 Reading Level: Average

This course is intended for students who need an extended time to complete the Integrated Algebra curriculum. It will be the first year of a two-year study of Integrated Algebra. Students will be expected to acquire and demonstrate mathematical problem solving skills and will be expected to identify and justify mathematical relationships. Topics will include equation solving, graphing, systems of equations, polynomials, rational expressions, and functions. A local final exam will be given in June. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2006 Integrated Algebra 2 year - Year 2

Grade: 10 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Integrated Algebra 2yr (1)
 Reading Level: Average

This course is intended for students who have completed Integrated Algebra 2 Year - Year 1 course. It will be the second year of a two-year study of Integrated Algebra and will culminate with the Integrated Algebra Regents Exam. Students will be expected to acquire and demonstrate mathematical problem solving skills and will be expected to identify and justify mathematical relationships. Topics will include quadratic equation solving and graphing, solid geometry, probability, and statistics. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2021 Honors Geometry

Grade: 9, 10 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Integrated Algebra and Teacher recommendation
 Reading Level: Average/High

This course is intended for students who have accelerated their mathematics program by taking Integrated Algebra in Grade 8. All the topics of the Geometry course will be covered, but it will be done in greater depth and at a faster pace. Additional topics have been added to this course including complex numbers and linear modeling. Students will be expected to spend more time proving theorems from Geometry as well as applying them. Students will take the Geometry Regents Exam in June. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2022 Geometry

Grade: 9, 10 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Integrated Algebra
 Reading Level: Average

Geometry is the second course in a three-year Regents sequence which culminates with the Geometry Regents Exam in June. Students will identify and justify geometric relationships, formally and informally. The geometry course was designed with the idea of progressing from simple to more complex figures, exhausting the study of each figure before moving on. The focus of this course is to explore, conjecture, justify, prove, and apply rather than build a deductive system. Topics will include logic, triangles, quadrilaterals, circles, solid geometry, and locus of points. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2023 Non-Regents Geometry

Grade: 10, 11 40 weeks
 Exam: Local exam Offering: Full year
 Prerequisites: Integrated Algebra or
 Integrated Algebra 2yr (2)
 Reading Level: Average

This course is intended for students who have completed the two-year Integrated Algebra course or for students who need extended time to understand geometrical concepts. This course was not designed to cover all the concepts required for the Geometry Regents Exam. Students wishing to take this exam through this course would have to register for summer school and do some independent learning of the concepts not covered. The geometry course was designed with the idea of progressing from simple to more complex figures, exhausting the study of each figure before moving on. The focus of this course is to explore, conjecture, justify, prove, and apply rather than build a deductive system. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2070 Algebra 2 & Trigonometry

Grade: 10, 11 40 weeks
 Exam: Regents Offering: Full Year
 Prerequisites: Integrated Algebra (Final average & Regents grade of 75 or higher) and Geometry (Final average & Regents grade of 75 or higher) Reading Level: Average

Algebra 2 & Trigonometry is the third course in a three-year Regents sequence which culminates with the Algebra 2 & Trigonometry Regents exam in June. Students will identify and justify mathematical relationships, formally and informally. Topics will include functions, rational expressions, radicals, exponents, logarithms, probability and statistics, and trigonometry. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2071 Algebra 2 & Trigonometry Honors

Grade: 10, 11 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Honors Geometry and Teacher recommendation
 Reading Level: Average/High

This course is intended for students who have accelerated their mathematics program by taking Honors Geometry. All the topics of the Algebra 2 & Trigonometry course will be covered, but it will be done in greater depth and at a faster pace. Students will identify and justify mathematical relationships, formally and informally. Students will have the opportunity to derive concepts, do more complicated examples, and will be required to produce rigorous solutions. Topics will include functions, rational expressions, radicals, exponents, logarithms, probability and statistics, sequences, and trigonometry. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2072 Non-Regents Algebra 2 & Trigonometry

Grade: 11 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Non-Regents Geometry or Regents Geometry
 Reading Level: Average

This course is intended for students who have completed the Non-Regents Geometry course and are looking to study advanced algebra concepts. This course was not designed to cover all the concepts required for the Algebra 2 & Trigonometry Regents exam. Topics will include functions, rational expressions, radicals, exponents, logarithms, and trigonometry. A local final exam will be given in June. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2073 Algebra 2 & Trigonometry 2 Year – Year 1

Grade: 11 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Regents Geometry
 Reading Level: Average

This course is intended for students who need an extended time to complete the Algebra 2 and Trigonometry curriculum. This course will be the first year of a two-year study of advanced algebra and trigonometric concepts. Students will identify and justify mathematical relationships, formally and informally. Topics will include functions, rational expressions, radicals, exponents, logarithms, probability & statistics, and trigonometry. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2074 Algebra 2 & Trigonometry 2 Year – Year 2

Grade: 12 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Algebra 2 & Trigonometry 2 Year - Year 1
 Reading Level: Average

This course is intended for students who have completed the

Algebra 2 & Trigonometry 2yr (1) course. It will be the second year of a two-year study of Algebra 2 & Trigonometry concepts and will culminate with the Algebra 2 & Trigonometry Regents Exam. Students will identify and justify mathematical relationships, formally and informally. Topics will include functions, rational expressions, radicals, exponents, logarithms, probability & statistics, and trigonometry. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2082 Precalculus

| | |
|---|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Algebra 2 and Trigonometry with a final average grade of 75 or higher and a passing grade on the Regents | |
| Reading Level: Average | |

Precalculus is recommended for students planning to study engineering, science, computers, mathematics or business at the college level. It includes a study of functions (polynomial, rational, exponential, logarithmic and trigonometric), conics, systems of equations and plane analytic geometry. Students will have the opportunity to earn Schenectady County Community College credit if they successfully complete the course. (Precalculus with Analytic Geometry, MAT 129.) A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

2083 Math 12N

| | |
|---|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Algebra 2 and Trigonometry | |
| Reading Level: Average | |

This course is recommended for students who plan to attend a four-year college and not major in a science or math related field. The course will include the study of some or all of the following topics: functions (polynomial, rational, exponential, logarithmic, trigonometric), systems of equations, discrete mathematics (i.e. Election theory, Four Division, Graphing applications) statistics. A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

2091 Math 12 Honors

| | |
|---|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Algebra 2 and Trigonometry Honors and Teacher recommendation | |
| Reading Level: Average/High | |

Math 12 Honors is intended for students who have completed Math B Honors. This course will cover in greater depth the topics of Precalculus. Additional topics will be studied including sequences, series, limits, number theory, linear programming, spatial geometry, linear algebra, etc. Students will have the opportunity to earn Schenectady County Com-

munity College credit if they successfully complete the course. (Precalculus with Analytic Geometry, MAT 129.) A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

2092 Applied Mathematics 1

| | |
|--|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full Year |
| Prerequisites: Integrated Algebra 2 year (2) | |
| Reading Level: Average | |

This is the third year course that follows Integrated Algebra 2 year (2). The course will include both mathematical skills and theory. The primary focus will be the investigation of mathematics in real world situations. Topics of study will center around financial mathematics. A graphing calculator will be required for the course. The recommended models are the TI-84+ and the TI-83+.

2100 Computer Programming – JAVA

| | |
|------------------------|-----------------------------------|
| Grade: 9, 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Reading Level: Average | Prerequisites: Integrated Algebra |

This introductory computer programming course will introduce students to techniques of programming using the JAVA language. A history of computers and flowcharting will be used. Programs will require the use of accumulators and counters, nested loops, round-off procedures, random numbers, subscripted variables, sorting techniques, string variables, and subroutines. Individual projects will be required.

2142 Advanced Placement Computer Science

| | |
|---------------------------------------|--|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: AP Exam in May for a fee; Local | Reading Level: Average |
| Offering: Full year | Prerequisites: Geometry and Computer Programming - JAVA; |
| Teacher recommendation | |

This college level course in computer science is designed to prepare students for the Advanced Placement exam in May. Colleges may grant credit or advanced standing based on the performance on this exam. The major emphasis in this course is on programming methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are treated. Applications are used to develop student awareness of the need for particular algorithms and data structures as well as to provide topics for programming assignments to which students can apply their knowledge. JAVA is the programming language used in this course. All students taking this course will take the Advanced Placement exam in May. (Fee is approximately \$87.)

2901 Advanced Placement Calculus (AB)

Grade: 11, 12 40 weeks
 Exam: AP exam in May for a fee
 Offering: Full year Prerequisites: Precalculus
 Reading Level: High

This college level course in calculus is designed to prepare students for the Advanced Placement (AP) exam in May. Colleges may grant credit or advanced standing based on the performance on this exam. The content involves differential and integral calculus - including limits, continuity, derivatives of implicit and explicit algebraic functions as well as logarithmic and trigonometric functions. Applications of the derivative and integral include curve sketching, area under a curve and volume. All students taking this course will take the Advanced Placement exam in May. (Fee is approximately \$87.) A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

2911 Advanced Placement Calculus (BC)

Grade: 11, 12 40 weeks
 Exam: AP exam in May for a fee; Local
 Offering: Full year Prerequisites: Math 12H
 Reading Level: High

Calculus BC is intended for students who have completed the Math 12 Honors course. This college level course in calculus is designed to prepare students for the Advanced Placement exam in May. Colleges may grant credit or advanced standing based on the performance on this exam. BC Calculus is considerably more extensive than AB Calculus. The topics covered in this course are equivalent to a second semester college course in calculus, as well as all the topics in AB Calculus. All students taking this course will take the Advanced Placement exam in May. (Fee is approximately \$87.) A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

2094 Statistics

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Integrated Algebra
 Reading Level: Average

This course is intended for students looking for a third or fourth credit in mathematics. Students should have at least completed the Integrated Algebra curriculum. Statistics is one of the most widely used applications of mathematics and this course is intended to teach students how to use statistics to interpret the world around them. Students will learn about collecting data and sampling techniques, organizing data for presenting information, analyzing data to make good decisions, and evaluating other people's studies to judge their validity. Students will be responsible for an independent statistics project at the end of the third quarter. A local final exam will be given in June. A graphing calculator is required for the course. The recommended models are the TI-84+ and the TI-83+.

Miscellaneous

0946 Dance Choreography

Grade: 9, 10, 11, 12 20 weeks
 Exam: Video taped work Offering: One semester
 Prerequisites: None Reading Level: N/A

Students will explore their own creativity through dance. Studies in improvisation, imaging to music and verbal direction, choreographic experimentation, and teaching and performing movement will challenge the student to explore his/her creative spark. Open to all students, no previous dance experience necessary.

0947 Dance Styles

Grade: 9, 10, 11, 12 20 weeks
 Exam: Performance Offering: One semester
 Prerequisites: None Reading Level: N/A

If you want to increase your knowledge of dance as a performing art, Dance Styles is the course for you. Through movement study and the use of videotapes and movies, students will explore major dance styles: ballet, modern dance, folk, and jazz. (No previous dance experience necessary.) This course is technique oriented.

0943 Acting and Directing

| | |
|---------------------|------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: None | Reading Level: Average |

Covers the duties of the actor and director with an emphasis on on-stage activities. Designed for students who are interested in Theatre but who do not necessarily have experience. Satisfactory /Unsatisfactory grading is available.

0944 Advanced Acting

| | |
|-------------------------------------|------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: Acting and Directing | |
| Reading Level: Average | |

Gives the serious student of acting the opportunity to use the skills and knowledge gained in Acting and Directing. Emphasis on characterization, improvisation and script interpretation. The preparation of scenes for public viewing concludes the course. Satisfactory/Unsatisfactory grading is available.

7853 Focus Family

| | |
|--|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: None | Offering: Full year |
| Prerequisites: Enrolled in Focus Program | |
| Reading Level: N/A | |

The foundation of Focus is the Family group. Each Family consists of a maximum of 12 students and one Focus teacher/advisor. The Family is a group process, which utilizes the peer group to encourage positive youth development. The Family causes students to recognize and deal with their reasons for being disenchanted with school.

0948 Theatre Arts Independent Study

| | |
|--------------------------------------|---------------------|
| Grade: 10, 11, 12 | Offering: Full year |
| Exam: None | Reading Level: N/A |
| Prerequisites: See description below | |

Designed for students who wish to become involved in the technical and support aspects of theatrical production at Guilderland High School. Students are awarded a credit for 150 hours of approved work in theatrical production and support services for visiting groups.

Music

**Music Companion Courses**

Performing music students may take a course in the other half of the block:
Block 2 Music: Health
Block 3 Music: Health

5522 Women's Choir

| | |
|------------------------------------|----------------------|
| Grade: 9, 10, 11, 12 | 40 weeks / 1/2 block |
| Exam: Proficiency | Offering: Full year |
| Prerequisites: Performance Ability | |
| Reading Level: N/A | |

This group sings a wide variety of musical selections for treble voices in many styles and performs at many school and community functions. Each student is required to take lessons working on vocal executive skills for solo and ensemble singing. Performance opportunities include choral festivals, participation in the school musical and NYSSMA group and solo evaluation. Students may take choir and band/orchestra in the same block. This course meets the Art/Music requirement for graduation.

5532 Concert Choir

| | |
|-------------------------|----------------------|
| Grade: 10, 11, 12 | 40 weeks / 1/2 block |
| Exam: Proficiency | Offering: Full year |
| Prerequisites: Audition | |
| Reading Level: N/A | |

This select mixed choir performs a variety of musical selections in many styles including master works from the standard choral repertoire as well as joint performances with orches-

tra, band and jazz ensemble. Proficiency scores and teacher recommendation from the previous year determine eligibility for this group. Each student is required to take small group lessons and students are encouraged to develop their solo singing and participate in NYSSMA. Students may take choir and band/orchestra in the same block and are encouraged to do so. This course meets the Art/Music requirement for graduation.

5512 Mixed Choir

| | |
|------------------------------------|----------------------|
| Grade: 9, 10, 11, 12 | 40 weeks / 1/2 block |
| Prerequisites: Performance Ability | |
| Exam: Proficiency | |
| Offering: Full Year | Reading Level: N/A |

This is a mixed voice choir where students are introduced to four-part SATB harmony. Students develop their skills as independent singers and work on vocal skills in lessons. Students also perform jointly with the Concert Choir. Each student is required to take small group lessons. Students may take choir and band/orchestra in the same block. This course meets the Art/Music requirement for graduation.

5502 Symphony Orchestra

Grade: 10, 11, 12 40 weeks / 1/2 block
 Exam: Proficiency Offering: Full year
 Prerequisites: Audition
 Reading Level: NYSSMA level IV-VI

This organization plays musical selections from all time periods and styles. The orchestra performs at the Winter and Spring School concerts, the Pops Concert, the District Orchestra Festival and the Graduation Ceremony on a rotating basis with band and choir. All string players are members of this group and wind and percussion players are selected from the Wind Ensemble by the orchestra conductor. Each student is required to take lessons either in school or privately. Students may take orchestra and choir in the same block. This course meets the Art/Music requirement for graduation.

5562 Concert Orchestra

Grade: 9, 10, 11, 12 40 weeks / 1/2 block
 Exam: Proficiency or equivalent
 Offering: Full year
 Prerequisites: Previous string experience or conductor's permission
 Reading Level: NYSSMA level III-IV

Open to all students who have experience on an orchestral string instrument. Emphasis is on continuing technical development, aural and ensemble skills. There are approximately four performances per year, with music chosen from a variety of sources, including classics, folk, modern and original works. Wind and percussion students are chosen from the Concert Band and join the orchestra on a rotating basis. All orchestra students must be enrolled in the lesson program, either privately or through the school. Students may take orchestra and choir in the same block. This course meets the Art/Music requirement for graduation.

5542 Symphonic Band

Grade: 9, 10, 11, 12 40 weeks / 1/2 block
 Exam: Proficiency Offering: Full year
 Prerequisites: Previous Band Experience
 Reading Level: NYSSMA level III

This ensemble is composed of students who have previous band experience and are capable of performing at NYSSMA Level III as a soloist. Students suggested practice time for this group should be 3 hours per week. This group will perform selections chosen from the Pop, Jazz, Classical, Folk and 20th Century repertoire. Emphasis is placed on a continuance of technical development, aural and ensemble skills. Students are required to take a weekly group lesson within the school day or choose the option of taking a private lesson outside of school hours. This course can be used to meet the Fine Arts requirement for graduation.

5582 Concert Band

Grade: 9, 10, 11, 12 40 weeks / 1/2 block
 Exam: Proficiency Offering: Full year
 Prerequisites: Audition
 Reading Level: NYSSMA level IV or V

This organization is composed of students who are musically proficient and capable of performing at NYSSMA Level IV - V as a soloist. Students suggested practice time for this group should be 4 hours per week. Every effort is made to maintain a well- balanced instrumental ensemble, which will perform musical selections chosen from the Pop, Jazz, Classical, Folk and 20th Century repertoire. Emphasis is placed on a continuance of technical development, aural and ensemble skills. Students are required to take a weekly group lesson within the school day or choose the option of taking a private lesson outside of school hours. This course can be used to meet the Fine Arts requirement for graduation.

5552 Wind Ensemble

Grade: 9, 10, 11, 12 40 weeks / 1/2 block
 Exam: Proficiency Offering: Full year
 Prerequisites: Audition
 Reading Level: NYSSMA level V or VI

This organization is composed of students who are musically proficient and capable of performing at NYSSMA Level V - VI as a soloist. Students suggested practice time for this group should be 5 hours per week. Every effort is made to maintain a well - balanced instrumental ensemble and might be limited to one player per part. Each student auditioning for this group must understand the responsibility he/she must have when committing to this group. Students attendance at all performances are strongly encouraged to ensure a balanced and successful performance. The ensemble will perform exemplary and demanding literature from the repertoire for Wind Ensemble. Students are required to take a weekly group lesson within the school day or choose the option of taking a private lesson outside of school hours. This course can be used to meet the Fine Arts requirement for graduation.

5602 Music Theory and Composition 1

Grade: 10, 11, 12 40 weeks
 Offering: Full year
 Prerequisites: In-school music programs or one year of private music instruction

Music Theory is open to all students of all musical backgrounds, although a prior knowledge of music notation and proficiency on an instrument or voice is recommended. The course covers all aspects of music including ear training, notation, keys, scales, chords, composition and analysis. Emphasis is on a theoretical understanding through aural comprehension. Theory is recommended to any student considering entering the field of music or desiring a deeper understanding of musical concepts.

*Music, continued***5611 AP Music Theory**

Grade: 11, 12 40 weeks
 Offering: Full year
 Prerequisites: Advanced Aural Skills training/ or MAP test

AP Music Theory is an advanced curriculum leading to the AP examination in May. The course covers more challenging aspects of music including advanced ear training, dictation, scales/modes, altered chords, composition, analysis and music history. Emphasis is on a theoretical understanding through aural comprehension. AP Music Theory is recommended to any student considering entering the field of music.

5612 Music Technology

Grade: 9, 10, 11, 12 40 weeks
 Prerequisites: None Offering: Full year

This hands-on, project-centered course is designed to give students who are interested in music related careers the opportunity to acquire functional knowledge about music technology. Students will learn the basics of audio hardware, recording, MIDI sound production, notation, sequencing and editing with projects demonstrating both the creative process and the possibilities of music technology. This course meets the Art/Music requirement for graduation.

5613 Music in Our Lives

Grade: 9, 10, 11, 12 40 weeks
 Prerequisites: None Offering: Full year

Music in Our Lives is an elective course designed for students to study many different aspects of the musical arts. Curriculum units include keyboard and guitar instruction, composition, music technology, and other topics. The course focus is on gaining life-long musical knowledge through hands-on activities while exploring social instruments on a recreational (non-performance) level. The course culminates in an independent project focused on a specific area of student interest. Students in this course receive one credit which satisfies the Fine Arts requirement.

5614 Music Technology 2

Grade: 11, 12 40 weeks
 Prerequisites: Music Technology 1 or teacher permission
 Offering: Full year

Music Technology 2 is designed for students who have completed Music Technology 1 and have acquired a functional knowledge about sound manipulation. The class will focus on advanced aspects of Midi sound production, sequencing, editing and composition/film scoring. This course will be of an interest to students who are pursuing a career path in a music technology related field.

5624 Rock Music Styles and Performance Lab

Grade: 10, 11, 12 Exam: Project
 Prerequisites: Teacher permission
 Offering: 40 weeks / Half block or 1 semester

This course is designed for students who play (sing) a rock band instrument and wish to study performance practice of different genres of rock while improving their performance skills and musical knowledge.

5626 Improvisation Performance Lab

Grade: 10, 11, 12 Exam: Combo performance
 Prerequisites: Basic vocal or instrumental proficiency
 Offering: 40 weeks / Half block or 1 semester

This lab will focus on the study of musical improvisation. Making music "in the moment" gives students a creative opportunity for self-expression based on deep understanding of musical structures. Students will develop the technical skills necessary for a poised and self-assured spontaneous performance.

5620 Beginning Guitar Lab

Grade: 10, 11, 12 Exam: Proficiency
 Prerequisites: None
 Offering: 40 weeks / Half block or 1 semester

Would you like to learn to play your favorite tunes or write your own songs? This guitar class will give you basic instruction in playing technique, chord charts and tablature, tuning and composition.

5622 Piano and Keyboard Lab

Grade: 10, 11, 12 Exam: Proficiency
 Prerequisites: None
 Offering: 40 weeks / Half block or 1 semester

This music elective is for students who would like to learn to play piano and keyboard. The class will include basic instruction in playing technique, aural skills, improvisation and composition.

5704 Applied Music (Independent Study)

Grade: 9, 10, 11, 12 40 weeks / once a week
 Exam: Summary Offering: Full year
 Prerequisites: One year of private music lessons

In this program, students may receive credit for taking private lessons outside of school from qualified teachers. Applied music should not be confused with school private lesson forms. This course does not fulfill the Regents Fine Arts requirement for graduation. Forms and information are available on line at: <http://www.guilderlandschools.org>. Credit requires 5 hours of weekly practice and quarterly reports as well as a year end evaluation.

Physical Education



8001 Physical Education 9-10

8011 Physical Education 11-12

Exam: N/A 40 weeks
Prerequisites: None Offering: Full year

The Physical Education program builds upon the elementary and middle school programs with emphasis on the development of advanced techniques, strategies and greater competence in performing a variety of physical activities. The program stresses cooperation, sportsmanship, safety and fair play through a variety of team, large group, small group and individual activities. Health-related physical fitness will be an integral part of each unit with students identifying, assessing, analyzing and working out to improve cardiovascular endurance, muscular strength and endurance, flexibility and body composition. The main goal of the program is to foster greater knowledge and enjoyment of, and lifelong participation in, physical activity.

8041 Focus Physical Education 11-12

Grade: 10, 11, 12 40 weeks/every other day/adv.
Exam: N/A Offering: Full year
Prerequisites: Enrollment in Focus Program
Reading Level: N/A

Students are engaged in adventure based activities designed to promote an active healthy lifestyle in which an individual's sense of personal confidence and self-esteem is increased in a cooperative, supportive atmosphere.

8063 Physical Education Special Needs 9 - 12

Grade: 9, 10, 11, 12 40 weeks/every other day
Exam: N/A Offering: Full year
Prerequisites: Students identified as physically challenged
Reading Level: N/A

Students are provided with a variety of short activity units whose primary purposes are to provide ongoing individualized opportunities for participating in and enjoying lifetime activities which help to develop and maintain physical wellness. The one-mile run/walk best effort is a twice-yearly cardiovascular assessment requirement at the high school. Students are encouraged to try their best and at least maintain or improve previous performance in this assessment tool.

8070 Introduction to Sports Medicine

Grade: 11, 12 Reading: Average
Exam: Local Offering: Fall Semester
Prerequisites: Successfully completed Health, Biology and 2 years of Physical Education

The course in Sports Medicine is a 1/2 unit Physical Education elective credit designed to give students who are interested in health related careers the opportunity to be exposed to this subject area. The students will learn the basics of prevention, evaluation, treatment and rehabilitation of sports related injuries and gain a working knowledge of the athletes' body.

Health



7802 Health Education

Grade: 10-12 20 weeks
Exam: Local Offering: Both semesters
Prerequisites: None Reading Level: Mixed

Health is an one-semester course (1/2 unit) that is required by New York State for graduation. Given the fact most of our modern-day health problems represent poor decisions rather than medical failures, the primary goal of this course is to provide students with the necessary skills and knowledge that they can intelligently use to ultimately live a lifetime of appreciating and attaining wellness. The content in this course deals with knowledge (concepts, facts, generalizations and understanding); attitudes (values, appreciations); and skills

(communications advocacy, decision making, planning and goal setting, and self management) in the areas of:

1. Foundations of health
2. Coping strategies
3. Disease and disability
4. Respect and nonviolence
5. Teen sexuality, which includes HIV/AIDS education and parenting
6. Drugs, medicine and alternative therapies
7. Nutrition
8. Mental Health

Reading

8265 Literacy Tutorial

Grade: 9, 10, 11, 12 20 weeks
Prerequisites: None

This is the class in the Reading Department where we strive for a tutoring ratio of no more than 2:1. Students who need a developmental or remedial reading class should take Literacy Tutorial. A student may take this course more than once. This is a ½ credit elective course and is open to both regular and special education students. Students with Reading Goals on their IEPs will receive direct instruction to meet those goals. The class is tailored to the student's specific reading needs, including reading comprehension, written expression of comprehension, word study (which may include Wilson Decoding), fluency, vocabulary development and test taking strategies. Informal Reading Inventories and other assessments are used to help determine the student's needs. Please call the Reading Department with questions about potential scheduling issues.

8266 Literacy Tutorial: Split Block

Grade: 9, 10, 11, 12 40 weeks
Prerequisites: None

Literacy Tutorial: Split Block meets for ½ a block for the full year. It is offered to students who are in the performing music groups or the split block health class. Class is a full year and provides a ½ credit. A student is to be signed in to EITHER

Literacy Tutorial Split Block A or Literacy Tutorial Split Block C. Instruction is delivered through tutoring and focuses on the student's specific reading needs, including reading comprehension, written expression of comprehension, word study (which may include Wilson Decoding) and vocabulary development. Informal Reading Inventories and other assessments are used to help determine the student's needs. 8266 is the equivalent of 8265 with a shorter duration for each session taught over the full year.

8268 Literacy Tutorial: Co-Taught

Grade: 9, 10, 11 40 weeks
Offering: Not eligible for credit
Prerequisites: None

Literacy Tutorial: Co-Taught is open only to students in our Special Education Co-Taught program. Depending on the Co-Taught enrollment, instruction is provided through 1:1 tutoring or in small groups. The instruction focuses on the student's specific reading needs with a special emphasis on providing reading material at the student's instructional level. Reading comprehension, written expression of comprehension and vocabulary development are all possible areas of instruction. Informal Reading Inventories are used to help determine the student's needs. Students who take Literacy Tutorial: Co-Taught may take the traditional Literacy Tutorial 8265 in a different grade for a more intensive tutoring experience.

Science



3002 Regents Earth Science

Grade: 9 40 weeks
Exam: Regents Offering: Full year
Prerequisites: Previous year's Science Teacher recommendation
Reading Level: Average

This course is a detailed study of the earth and its environment. Topics covered will include processes of change, earth model and its energy requirements, geology, meteorology, oceanography, and astronomy. Students are required to complete a minimum of 20 hours of laboratory experience and submit a completed lab folder with successfully written lab reports prior to taking the Regents exams. Fifteen to 20 percent of this folder will be based on an all day outdoor field trip experience.

3000 Honors Earth Science

Grade: 9, 10 40 weeks
Exam: Regents Offering: Full year
Prerequisites: Regents Biology and Teacher recommendation
Reading Level: High

Honors Earth Science is a detailed study of the earth and its environment and is intended for those students who accelerated in science in eighth grade. All of the topics of the Regents Earth Science curriculum will be covered, but will be done so in greater depth. Students will be expected to learn material at a fast pace and will be expected to complete a number of research projects throughout the school year, many of which will require data collection outside of school. A minimum of 20 hours of laboratory work, with satisfactory reports is required.

3012 Regents Biology

Grade: 9, 10 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Regents Earth Science
 Reading Level: Average

This course is a detailed study of many aspects of modern biology. Topics include cell biology, genetics, ecology, evolution, and human biology. Students are required to complete a minimum of 20 hours of laboratory work and submit a completed lab folder with written reports to qualify to take the Regents.

3003 Regents Core Biology

Grade: 9 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: 8th grade Teacher recommendation
 Reading Level: Average

This course is specifically designed for 9th grade students who have the need to take a highly structured Biology Regents program. The course will cover all of the Core Regents Biology topics. Extensive laboratory work will be required. Students are required to complete a minimum of 20 hours of lab work and submit a completed lab folder with written reports to qualify to take the Regents Exam.

3031 Honors Biology

Grade: 10 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Regents Earth Science and teacher recommendation
 Reading Level: High

Honors biology is a detailed study of modern biology that is intended to prepare students for the SAT II Biology and Regents Biology exams. All of the topics from the Regents Biology curriculum will be covered, but will be done so in greater depth. Students will be expected to learn material at a fast pace and will be expected to complete a research paper during the school year. Students will have the option to take the SAT II. A minimum of 20 hours of laboratory work, with satisfactory reports, is required.

3032 Physiology

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Biology Reading Level: Average

Emphasis is on a basic understanding of the anatomy and function of the organs and life systems of the human body. Laboratories include animal dissection.

3021 Syracuse University Project Advance Biology

Grade: 12 40 weeks
 Exam: None Offering: Full year
 Prerequisites: Regents Biology
 Reading Level: High

This is the equivalent of the freshman biology course offered

at Syracuse University. The course (General Biology, Biology 121-123) is an eight-credit course which will cost approximately \$110 per credit (2011-12 tuition rate). Course content includes a study of the diversity of life and adaptation, cells, the chemicals of life, reproduction and genetics. Extensive laboratory work is required, including dissections. Credit may be earned from Syracuse University by paying tuition at the currently established rate. Students will have the option to take the AP Biology exam.

3041 Honors Physiology

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Regents Biology (grade of 80 or better)
 Reading Level: High

An in-depth study of anatomy and functions of the human body. The NYS Regents College Examination in Anatomy and Physiology will be required of all students in this course. Laboratories include animal dissection. The purchase of a laboratory manual is required. Credit may be earned from Excelsior College (Anatomy and Physiology) at the currently established rate.

3102 Regents Chemistry

Grade: 10, 11, 12 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Regents Biology and student is taking Algebra 2 concurrently
 Reading Level: Average/High

This is a preparatory course for those who may take additional science in college. The major emphasis is on chemical theory, atomic structure, bonding, kinetics and equilibrium, acids and bases, oxidation reduction and electrochemistry, organic chemistry and nuclear chemistry. A minimum of 20 hours of laboratory work, with satisfactory reports is required.

3103 General Chemistry

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: 1 year science Reading Level: Average

Basic topics covered in this course include atomic structure, chemical reactions, solubilities and stoichiometry. There will be considerable laboratory work as part of this course.

3111 Honors Chemistry

Grade: 10, 11 40 weeks
 Exam: Regents & Local Offering: Full year
 Prerequisites: Honors Biology and Teacher recommendation
 Reading Level: High

The course will cover the same topics as Regents Chemistry, however in more depth and more quantitatively and at a faster pace. All students will have the option to take the SAT II. There will also be a major research project required. A minimum of 20 hours of laboratory work, with satisfactory reports is required.

3121 (AP) Advanced Placement Chemistry

Grade: 11, 12 40 weeks
 Exam: AP Exam & Local Offering: Full year
 Prerequisites: Regents Chemistry, Algebra 2 and Trigonometry
 Teacher recommendation
 Reading Level: High

AP Chemistry is a college level course designed as a second chemistry course for high school students. Many topics in the course will be extensions of those studied in Regents chemistry. Such topics as stoichiometry, chemical kinetics and chemical thermodynamics will be studied in depth with a strong emphasis on mathematical models and problem solving. Students must take the AP exam as part of this course. (Approximate test fee \$87.)

3203 General Physics

Grade: 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Understanding of Algebra, 1 year science and
 Teacher recommendation or 2 years science
 Reading Level: Average

Designed for the student who does not plan to continue in physics after high school. The course topics include mechanics, heat, wave motion, sound and electricity. Considerable laboratory work will be required.

3063 Environmental Earth Science

Grade: 10, 11 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Core or Regents Biology
 Reading: Average

This course is designed for students who have completed Core Biology and do not wish to take further Regents science courses. The course content will focus on Earth Science and Chemistry as they relate to the Earth's environment. There will be strong laboratory component as well as projects that will show the relationships of Earth Science and Chemistry to our environment.

3202 Regents Physics

Grade: 11, 12 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Regents Chemistry
 Reading Level: Average/High

Regents Physics is a college preparatory course for students planning to continue in college pursuing engineering, professional sciences, technical training, medical and health-related fields. This course provides an in-depth study of mechanics, wave theory, electricity, magnetism, atomic and nuclear physics. Students are required to complete a minimum of 20 hours of laboratory work and submit satisfactory reports.

3201 Honors Physics

Grade: 11, 12 40 weeks
 Exam: Regents Offering: Full year
 Prerequisites: Honors Chemistry and Teacher recommendation
 Reading Level: High

This course will cover the same topics as Regents Physics, however in more depth and at a faster pace. This course is designed to be comparable to a first year, non-calculus based college physics course. A minimum of 20 hours of laboratory work, with satisfactory reports is required.

3083 Integrated Science

Grade: 11,12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Core biology, Environmental Earth Science
 Reading Level: Average/Low

This course is designed for students who need a third unit of science and have completed the prerequisites. The course will deal with a variety of topics such as forensics, space exploration and gardening. There will be considerable laboratory work as part of this course.

3211 Syracuse University Project Advance Forensics

Grade: 12 40 weeks
 Exam: Syracuse University Exam
 Prerequisites: Chemistry, General Chem or Physiology
 Teacher recommendation
 Reading Level: High

SUPA Forensics is equivalent to the college level Forensic Science course offered at Syracuse University. The course (Forensic Science, Chemistry 113) is a four-credit course which will cost approximately \$110 per credit (2011-12 tuition rate). This course is intended to provide an introduction to understanding the science behind crime detection. The course topics are drawn from the fields of Chemistry, Physical Science, and Biology. The laboratory exercises will include techniques commonly employed in forensic investigations. Examples of topics include fingerprinting, examining blood splatter, and hair/fiber comparisons. The course will span all ability levels and will be especially valid for those interested in a career in Law Enforcement or Criminal Justice. Credit may be earned from Syracuse University by paying tuition at the currently established rate.



Social Studies

Grades 9-10: GLOBAL HISTORY

The program for grades 9 and 10 is a two-year global history course organized around major areas of the world.

1001 Global History 1 – Honors

| | |
|---------------------|---------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: High |

For the motivated student with superior learning skills, this course requires active participation in social studies. Students learn the same content as Regents level, but more difficult readings, longer writing assignments, and a research paper are required. Emphasis is on individualized and independent projects, writing, and group interaction. In order for students to continue in an Honors or Advanced Placement program, they must achieve a final average of at least 80% for this course.

1002 Global History and Geography 1 – Regents

| | |
|---------------------|------------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Average |

Students will explore the history, geography and culture of China, Japan, Southeast Asia, India, Latin America, Africa and the Middle East through a variety of activities and assignments. The history of each region from ancient times to present day events will be covered and students will learn how to find and make sense of information from primary source documents. They will practice writing document-based and thematic essays.

1003 Global History and Geography 1 – Core/Co-ALPS

| | |
|---------------------|----------------------------|
| Grade: 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Low/Average |

Students will study the curriculum described for Regents level Global History and Geography, but in a smaller class with additional support and a slower pace. Sections of Co-ALPS are co-taught, with a Social Studies teacher and a Special Education teacher working as team; students will be enrolled in this section by recommendation.

1010 Global History/English 9X

| | |
|---------------------|----------------------|
| Grade 9 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: None | Reading Level: Mixed |

This interdisciplinary course helps students develop a keen awareness of the cultural richness of Africa, China, South Asia, Japan, India, the Middle East and Latin America. While completing the Global History I course, students will also explore the art and literature of these regions through challenging readings, presentations, creative writing and research projects. This course may be taken for Honors credit. In order for Honor students to continue in an Honors or Advanced Placement program, they must achieve a final average of at least 80% for this course. Assignment to the “X” program is based upon a lottery.

1023 Global History 2 – Core

| | |
|---------------------------------|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History I | |
| Reading Level: Low/Average | |

This course focuses on Western Europe, Russia, Eastern Europe and the Middle East. While the course is organized by geographic areas, the curriculum for each area contains sections on geographical and historical setting, the dynamics of change, contemporary nations and culture, economic development and global relationships. The improvement of students’ skills in the areas of language arts and reading is emphasized. Small class size enables teachers to provide more individualized attention to address students’ needs and to facilitate greater progress.

1033 Global History 2 – Focus

| | |
|--|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History I, Enrolled in Focus Program | |
| Reading Level: Low/Average | |

The Global History II course includes the study of Western and Eastern Europe, the Middle East and Russia. Students study the same global history units as other 10th grade students, but class size is smaller to provide a more structured, supportive learning situation.

1022 Global History 2 – Regents

| | |
|---------------------------------|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History I | |
| Reading Level: Average | |

This course will provide students with historical and contemporary views of the cultures of Western Europe, Eastern Europe and the Middle East. Reading, comprehension and writing skills will be developed through a variety of assignments. Students will refine their skill at writing thematic and document-based questions. This course will prepare students for the Global History and Geography Regents which covers the material from two years of study.

1030 Global History/English 10X

| | |
|---------------------------------|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History I | |
| Reading Level: Mixed | |

This interdisciplinary course explores the relationship between literature and the history. Students examine social studies units in depth, using fiction, poetry, and nonfiction. Students develop portfolios and take the Global History Regents Exam. This course may be taken for Honors credit. In order for Honors students to continue in an Honors program, they must achieve a final average of at least 80% for this course. Assignment to the “X” program is based upon a lottery.

1021 Global History 2 – Honors

| | |
|---------------------------------|---------------------|
| Grade: 10 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History I | |
| Reading Level: High | |

The history, politics, culture and economy of Western and Eastern Europe, Russia and the Middle East are studied. Topics are covered in greater depth than at the Regents level. Issues, advanced readings, writing, and independent research are stressed. In order for Honor students to continue in an Honors or Advanced Placement program, they must achieve a final average of at least 80% for this course.

1901 Advanced Placement European History

| | |
|--|-------------------------|
| Grade: 10 | 40 weeks |
| Exam: AP Exam; Regents | Offering: Full year |
| Prerequisites: Global History I Honors | |
| Reading Level: High | Exam Cost: Approx. \$87 |

The Advanced Placement (AP) Program is a cooperative endeavor between secondary schools, colleges and universities providing an opportunity for high school students to earn college credit. This course is designed for those students who are willing and able to apply themselves to college level studies. It will provide students with a very challenging program of reading, research and discussion of European history from 1400 to the present. All students taking this course will be required

to take the Advanced Placement test in May and the Global History Regents in June. A summer assignment is required for this course. In order for Advanced placement students to continue in the Advanced Placement program, they must achieve a final average of at least 80% for this course.

1043 United States History/Government – Core

| | |
|----------------------------------|---------------------|
| Grade: 11 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History II | |
| Reading Level: Low | |

Grade 11 Social Studies is a chronologically organized course in United States history. The cultural impact of ethnic groups, immigration and technology as well as other events are studied. Constitutional and legal issues are examined as well as issues of international involvement. Emphasis is on improving students’ skills in language arts, writing, and reading.

1053 United States History/Government – Focus

| | |
|---|---------------------|
| Grade: 11 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History II, Enrolled in Focus Program | |
| Reading Level: Low/Average | |

Students will study the same units of United States History/Government as presented to other 11th grade students, but class size is smaller to provide a more structured, supportive learning situation.

1042 United States History/Government – Regents

| | |
|----------------------------------|---------------------|
| Grade: 11 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History II | |
| Reading Level: Average | |

The United States History/Government course provides an in-depth study of American history from 1600 to the present. The Presidency, Congress and Supreme Court are examined in addition to immigration, foreign policy, economics and American culture. Reading, writing, and research activities are presented to develop student skills.

1041 United States History/Government – Honors

| | |
|----------------------------------|---------------------|
| Grade: 11 | 40 weeks |
| Exam: Regents | Offering: Full year |
| Prerequisites: Global History II | |
| Reading Level: High | |

The history, government, economy and culture of the United States are studied with many student-centered activities emphasizing student responsibility and student involvement. Extensive research, writing and study skills helpful in college are emphasized. In order for students to continue in an Honors or Advanced Placement program, they must achieve a final average of at least 80% for this course.

market. Elasticity and its significance on market decisions will be examined. Students must have completed or be concurrently enrolled in Precalculus. Students are expected to enroll for Syracuse credit.

*2011-12 Tuition Rate.

1921 Advanced Placement Microeconomics

| | |
|--|---------------------------|
| Grade: 12 | 20 weeks |
| Exam: AP Exam | Offering: Spring Semester |
| Prerequisites: United States History/Government Honors | |
| Reading Level: High | Exam Cost: \$87 |

This course is an in-depth study of microeconomics, culminating with the Advanced Placement exam in May. The focus of study is neoclassical economic theory and it will give students an understanding of the principles of economics and the role of individual decision makers. At the completion of this course students will understand the conditions of economic efficiency and the role of government in addressing the problems of market failure. Basic Economic concepts and opportunity cost will be examined. The concept of elasticity will be applied to the analysis of real-world problems. Students will apply the concepts of supply and demand to factors such as labor, capital and land, as well as to product markets.

1823 Public Policy – Core

| | |
|---|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: N/A | Offering: Both semesters |
| Prerequisites: United States History/Government | |
| Reading Level: Low/Average | |

In this course students will study government and societal issues. They will learn the structure of government and how policies are made. In addition, they will analyze several societal problems and discuss possible policies. Students will explore other public policy issues through individual and group projects.

1803 Public Policy – Focus

| | |
|--|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: N/A | Offering: Both semesters |
| Prerequisites: United States History/Government, Enrolled in Focus Program | |
| Reading Level: Low/Average | |

This course researches the government's role in managing societal problems. Students are required to complete many hands-on activities and projects to reinforce classroom concepts. Class size is smaller to provide a more supportive and cooperative environment.

1802 Public Policy – Regents

| | |
|---|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: N/A | Offering: Both semesters |
| Prerequisites: United States History/Government | |
| Reading Level: Average/High | |

In this course students will study government and societal issues. They will learn the structure of government and how policies are made. In addition, they will analyze several societal problems and discuss possible policies. Students will explore other public policy issues through individual and group projects.

1811 Public Policy – Honors

| | |
|---|--------------------------|
| Grade: 12 | 20 weeks |
| Exam: N/A | Offering: Both semesters |
| Prerequisites: United States History/Government | |
| Reading level: Average High | |

This course is for the student who desires to challenge himself/herself, but will not earn college credit. Students will study government and societal issues (gun control, stalking, hazing, euthanasia, etc.). There will be hands-on application of learned principles, a required degree of community involvement and project work. The projects may include, but are not limited to a Town Hall Symposium, designing, researching, and also integrating current technology into classroom activities.

1931 Advanced Placement Public Policy

| | |
|--|------------------------|
| Grade: 12 | 20 weeks |
| Exam: AP Exam | Offering: One semester |
| Prerequisites: United States History/Government Honors | |
| Reading Level: High | Exam Cost: \$87 |

This Advanced Placement Government and Politics course is for students who want the most rigorous challenge. Students will acquire a thorough and systemic comprehension of United States and comparative government and politics. They will need to learn facts and concepts and will understand typical political processes. Students will also learn to use specific information critically to evaluate general propositions about government and politics, as well as to present basic data relevant to government and politics in sustained written arguments. This process will include topics such as voting and elections, public opinion polls, federalism and the effect of ideology on the political process. Students must take the AP test in May. Check with schools in which you are interested about earning college credit. In general, schools grant credit with a test score of 3 or better.

1502 Psychology

Grade: 11, 12 20 weeks
 Exam: Local Offering: Both semesters
 Prerequisites: Global History II
 Reading Level: Average/High

This course attempts to answer questions students have about themselves and other people. The course also gives students the opportunity to test their intuitions about behavior. Topics include sleep and dreams, learning processes, child development, adolescent psychology, personality, stress, abnormal psychology, altered states of consciousness, social psychology, marriage and research design. Group projects, experiments and research are required.

1602 Sociology

Grade: 11, 12 20 weeks
 Exam: Local Offering: Both semesters
 Prerequisites: Global History II
 Reading Level: Average/High

Introductory high school level course designed to teach a basic understanding of the field of sociology, the study of human relationships. Material will be covered through the use of surveys, simulations, projects, class speakers and one major paper. Units include an introduction, culture and socialization, social structure, social inequality, deviance and the family.

1612 Criminal Justice

Grade: 11, 12 20 weeks
 Exam: Local Offering: Both semesters
 Prerequisites: Global History II
 Reading Level: Average/High

Introductory high school level course designed to teach a basic understanding of the field of Criminal Justice. Topics include crime in America, policing, the court system and corrections. Projects include police ride-alongs and court visits. A visit to a state prison and many class speakers are incorporated into the course.

1622 United States Foreign Policy

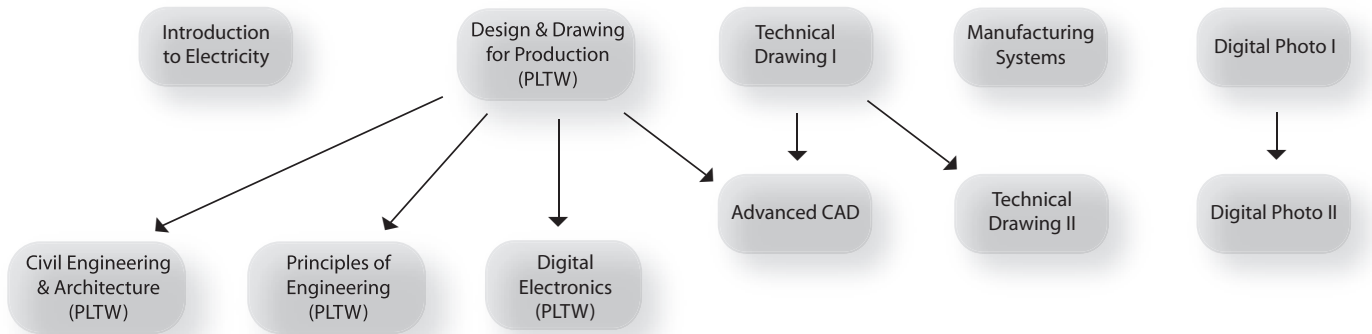
Grade: 11 Honors, 12 20 weeks
 Exam: Local Offering: One semester
 Prerequisites: US History or Global II Honors or AP European History and permission of instructor
 Reading Level: Average/High

This Honors level course will begin by examining the history of United States foreign policy, including its underlying values and goals, and will also include a substantive analysis of current United States policies in the world. Units of the course include a survey of U.S. foreign affairs from 1776 to the present, factors that influence U.S. foreign policy decisions, trade and U.S. national security, intelligence and military structure. Students will also examine international organizations, the War on Terrorism and the future of U.S. foreign policy. The course is discussion centered and will use up-to-date videos in addition to movies and guest speakers. Students will be required to complete readings on a regular basis and to be prepared to react verbally and in writing to the presented course issues.

Technology



Education



Guilderland High School Technology Education is partnering with Project Lead the Way (PLTW), a national, non-profit organization, in order to offer a sequence of pre-engineering courses for Guilderland High School students. Our program has gone through the certification process and is now a nationally recognized pre-engineering program.

PLTW courses make math and science relevant for students. By engaging in hands-on, real-world projects, students apply the skills they are learning in the classroom to everyday life. Students develop collaborative problem solving skills while preparing for post high school programs in technology and engineering. For more information see the PLTW Web site: www.pltw.org

SYSTEMS COURSES

7402 Manufacturing Systems

| | |
|----------------------|------------------------|
| Grade: 9, 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: None | Reading Level: Average |

Students explore the concepts of custom and mass production as they form a manufacturing company. Departments, including research and development, finance, marketing, human resources, and production work together to design, manufacture, and sell one or more products. Students study current manufacturing techniques as a supplement to hands-on product development, market research, advertising, and production.

7592 Principles of Engineering (PLTW)

| | |
|---|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: PLTW Exam | Offering: Full year |
| Prerequisites: DDP, Algebra 2 and Trigonometry or Geometry, Regents Science | |
| Reading Level: Average | |

Students explore the wide variety of careers in engineering and technology. They explore various technology systems and processes. Using activities, projects, and problems, students learn first hand how engineers and technicians use math, science, and technology in an engineering problems solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.

7652 Digital Electronics (PLTW)

| | |
|---|---------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: PLTW Exam | Offering: Full year |
| Prerequisites: DDP, Algebra 2 & Trigonometry or Geometry, Regents Science | |
| Reading Level: Average | |

Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the Digital Electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. Students will be involved in hands-on lab work and will be building circuits. One of the projects students will be involved with centers on the programming of robots.

7642 Civil Engineering and Architecture (PLTW)

| | |
|---|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: PLTW Exam | Offering: Full year |
| Prerequisites: DDP and Integrated Algebra | |
| Reading Level: Average | |

This course introduces students to civil engineering and architecture problem-solving processes. Students use state-of-the-art software to solve real-world problems and communicate solutions. Through hands-on projects and activities, students develop project planning, site planning, and building design skills.

FOUNDATION COURSES

7632 Design and Drawing for Production (PLTW)

| | |
|----------------------|------------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: PLTW Exam | Offering: Full year |
| Prerequisites: None | Reading Level: Average |

This course stimulates students' understandings of the design process through challenges to develop creative solutions to project based problems. Develop skills in 3-D sketching, computer aided drafting (CAD), modeling, technical design, and production. Learn to use hand and power tools while producing prototypes of your designs. This hands-on course fulfills the one-unit Art/Music requirement for HS graduation.

7552 Technical Drawing

| | |
|---------------------|-------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: Fall semester |
| Prerequisites: None | Reading Level: Average |

Drawings are prepared and used as a form of nonverbal communication between the designer and builder of a product. Drawings show shape, size, location, and how to get from one place to another. Depending on the particular function, the drawings may be engineering drawings, blueprints, shop sketches, trade sketches, maps, or specification sheets. However, they are all intended to communicate through universal language. Students in this course gain experience with drawing and sketching in several modes. Students work with different CAD applications that serve varying design purposes.

7532 Introduction to Electricity

| | |
|----------------------|------------------------|
| Grade: 9, 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: None | Reading Level: Average |

Exploring the entire field of electricity, students study the nature of electricity, basic circuits and laws, instrumentation, and power systems. Gain hands-on experience with wiring techniques while learning electrical principles. Students build and test various circuits common to building construction.

ELECTIVES

7562 Basic Electricity

| | |
|--|------------------------|
| Grade 11, 12 | 20 weeks |
| Exam: Local | Offering: One Semester |
| Prerequisites: Integrated Algebra; One Year of Regents Science | |
| Reading Level: Average | |

A technical course designed to introduce the basic concepts in electronics. The focus of the course will be residential wiring and low voltage circuitry. Topics include an overview of direct and alternating current, circuit laws, components, troubleshooting and use of test equipment. This course provides a hands-on experience with critical thinking and problem solving emphasized.

7622 Architectural Drawing

| | |
|--|------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: Design and Drawing or Technical Drawing | |
| Reading Level: Average | |

Explore historical and innovative developments in architectural design. Study architectural drawing conventions and use CAD to complete several design projects. Emphasis placed on residential structures and design for energy conservation.

7441 Advanced CAD/Production

| | |
|--|------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: One semester |
| Prerequisites: Design and Drawing or Technical Drawing | |
| Reading Level: Average | |

This course is for students who want to further develop their CAD skills, attack design problems with higher technical challenge, and refine woodworking skills. If a student wishes to take the course for more than one semester, it may be continued as an independent study contingent upon space availability.

7553 Technical Drawing 2

| | |
|----------------------------------|---------------------------|
| Grade: 10, 11, 12 | 20 weeks |
| Exam: Local | Offering: Spring semester |
| Prerequisites: Technical Drawing | |
| Reading Level: Average | |

This course is for students who want to develop their technical drawing skills further. Following Technical Drawing, students in this course continue experience with drawing and sketching in several modes and develop more advanced CAD skills.

7663 Digital Photography 1

| | |
|--|--------------------------|
| Grade: 10, 11, 12* | 20 weeks |
| Exam: Local | Offering: Both semesters |
| Prerequisites: None | Reading Level: Average |
| * Preference first to students in grade 12, then to students in grade 11, last to students in grade 10 | |

This course will introduce students to the elements of photographic composition, SLR camera functions, various natural lighting techniques, and general traditional and digital photography techniques. Students will use Photoshop to touch up, enhance, collage, manipulate and create original and existing photographic images into professional compositions. Students will be encouraged to experiment, collaborate and design photographs through project based learning. They will shoot, analyze, reflect and critique their photographs individually and as a group. Students will mat some of their best and larger format prints for displaying and showings. Students will be required to compose and maintain a quality photographic binder of individual works. It is recommended that each student have his or her own digital camera, although it is not required.

A \$25 lab fee is required to cover expenses associated with printing.

7763 Digital Photography 2

Grade: 10, 11, 12* 20 weeks
Exam: Local Offering: Spring semester
Prerequisites: Digital Photography 1
Reading Level: Average

** Preference first to students in grade 12, then to students in grade 11, last to students in grade 10*

This course is designed for students who are motivated and inspired to pursue digital photography. Students will explore further studies in composition, lighting techniques, and other related topics. Students will be encouraged to refine their camera and software editing skills. Students will design and develop a quality portfolio of works with an emphasis on presentation techniques. It is recommended that each student have his or her own camera.

A \$25 lab fee is required to cover expenses associated with printing.



World Languages & Cultures

4002 French 1

| | |
|--------------------------|------------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local, Proficiency | Offering: Full year |
| Prerequisites: None | Reading Level: Average |

This course is an introduction to the use of authentic French and the cultural aspects of French-speaking people. Special emphasis is placed on conversational skills.

4012 French 2

| | |
|-------------------------|------------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: French 1 | Reading Level: Average |

The course is taught with listening and speaking skills exercises, accompanying dialogues and grammar units and includes a variety of activities such as role playing, interactive computer exercises, and videos. Basic grammar is treated through classroom presentation and worksheets with accompanying tests. Students continue to develop their knowledge of French speaking countries, their cultures and traditions.

4011 French 2A

| | |
|--|---------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: French 1 and Teacher Recommendation | |
| Reading Level: Average/High | |

This course is similar to French 2 and 3 but taught at an accelerated pace. Students are selected by teachers' recommendations, by standardized test results, and by performance in their classes in grade 8. Only the French language will be used in class. Special emphasis will be given to readings, oral reports and dialogues, role playing, cassette work, and composition. Students continue to develop their knowledge of French speaking countries, their cultures and traditions. Prior to the end of the year, teachers will recommend whether students will go into French level 3 or 4.

4022 French 3

| | |
|-------------------------|------------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: French 2 | Reading Level: Average |

This course is a continuation of French 2 with emphasis given to the development of conversational skills, reading and listening comprehension and vocabulary development. The target language is used in the writing of controlled and semi-controlled compositions and to discuss certain cultural concepts.

4032 French 4

| | |
|-----------------------------------|-----------------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Offering: Full year | Reading Level: Average/High |
| Prerequisites: French 3/French 2A | |

Audio-lingual skills are stressed through reading and listening comprehension, supplementary readings on French culture and grammar review. French is used extensively in the classroom.

4031 French 4 Honors

| | |
|--------------------------------------|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Offering: Full year | Reading Level: High |
| Prerequisites: French 3 or French 2A | |

Students who wish to receive the Honors (H) designation on their report card next to the level 4 grade need to complete a special, three-part Honors project. These students will be required to take a written test in the foreign language (part 1) in the fall of that year. If they pass the test, they are eligible to complete the second part of the program which is a lengthier paper written in the target language (part 2) as well as an oral defense with the individual teacher and Foreign Language Instructional Administrator (part 3). Students who do not pass the written test in the fall are not eligible to participate in this program. Students will be informed of the process through their classroom teacher.

4041 French 5

| | |
|-------------------------|-----------------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: French 4 | Reading Level: Average/High |

Recommended for students who plan to continue language study in college. Special emphasis is on conversational skills and the ability to read and appreciate French literature, as well as synthesis of grammar and vocabulary learned in previous French courses. French is used almost exclusively in the classroom. Students who wish to receive four college credits may opt to do so by paying college tuition. (SUNY Albany, Intermediate French 4 credits, AFRE 221Y)

4051 French 6

| | |
|-------------------------|-----------------------------|
| Grade: 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: French 5 | Reading Level: Average/High |

Recommended for students who plan to continue language study in college. Special emphasis is on conversational skills and the ability to read and appreciate written work. Students who wish to receive four college credits may opt to do so by paying college tuition. (SUNY Albany, Intermediate French 4 credits, AFRE 222Y)

4102 Spanish 1

| | |
|--------------------------|------------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local, proficiency | Offering: Full year |
| Prerequisites: None | Reading Level: Average |

This course is an introduction to the use of authentic Spanish and the cultural aspects of Spanish-speaking people. Special emphasis is placed on conversational skills.

4112 Spanish 2

| | |
|--------------------------|---------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Spanish 1 | |
| Reading Level: Average | |

The course is taught with listening, speaking, reading and writing skills exercises, accompanying dialogues and grammar units and includes a variety of activities such as role playing, interactive computer exercises, and videos. Basic grammar is treated through classroom presentation and worksheets with accompanying tests. Students continue to develop their knowledge of Spanish speaking countries, their cultures and traditions.

4113 Spanish 2A

| | |
|--|---------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Spanish 1 and Teacher Recommendation | |
| Reading Level: Average/High | |

This course is similar to Spanish 2 and 3 but taught at an accelerated pace. Students are selected by teachers' recommendations, by standardized test results, and by performance in their classes in grade 8. Only the Spanish language will be used in class with special emphasis on readings, portfolio projects, compositions, skits, and the use of authentic materials and culture. Prior to the end of the year, teachers will recommend whether students will go into Spanish level 3 or 4.

4122 Spanish 3

| | |
|--------------------------|------------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Spanish 2 | Reading Level: Average |

Students become familiar with more language and grammatical structures. The target language is used in writing compositions, and in discussing certain cultural concepts. Emphasis is on the development of conversational skills, reading and listening comprehension and vocabulary development.

4132 Spanish 4

| | |
|--|-----------------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Offering: Full year | Reading Level: Average/High |
| Prerequisites: Spanish 3 or Spanish 2A | |

Audio-lingual skills are stressed through reading and listening comprehension, supplementary reading, Spanish culture and

grammar review with Spanish being used extensively in the classroom.

4131 Spanish 4 Honors

| | |
|--|---------------------|
| Grade: 10, 11, 12 | 40 weeks |
| Offering: Full year | Reading Level: High |
| Prerequisites: Spanish 3 or Spanish 2A | |

Students who wish to receive the Honors (H) designation on their report card next to the level 4 grade need to complete a special, three-part Honors project. These students will be required to take a written test in the foreign language (part 1) in the fall of that year. If they pass the test, they are eligible to complete the second part of the program which is a lengthier paper written in the target language (part 2) as well as an oral defense with the individual teacher and Foreign Language Instructional Administrator (part 3). Students who do not pass the written test in the fall are not eligible to participate in this program. Students will be informed of the process through their classroom teacher.

4141 Spanish 5

| | |
|--------------------------|-----------------------------|
| Grade: 11, 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Spanish 4 | Reading Level: Average/High |

Recommended for students who plan to continue language study in college. Special emphasis is on conversational skills and the ability to read and appreciate Spanish literature. Synthesis of grammar and vocabulary learned in previous Spanish courses. Spanish is used almost exclusively in the classroom. Students who wish to receive four college credits may opt to do so by paying college tuition. (SUNY Albany, Intermediate Spanish 3 credits, ASPN 103)

4151 Spanish 6

| | |
|--------------------------|-----------------------------|
| Grade: 12 | 40 weeks |
| Exam: Local | Offering: Full year |
| Prerequisites: Spanish 5 | Reading Level: Average/High |

Recommended for students who plan to continue language study in college. Special emphasis is on conversational and writing skills and the ability to read and appreciate written work. Students who wish to receive three college credits may opt to do so by paying college tuition. Course is taught exclusively in Spanish. (SUNY Albany, Intermediate Spanish 4 credits, ASPN 104)

4202 German 1

| | |
|--------------------------|----------------------------|
| Grade: 9, 10, 11, 12 | 40 weeks |
| Exam: Local, Proficiency | Offering: Full year |
| Prerequisites: None | Reading Level: Average/Low |

This course is an introduction to the use of authentic German and the cultural aspects of German-speaking people. Special emphasis is placed on conversational skills.

4212 German 2

Grade: 9, 10, 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: German 1
 Reading Level: Average

Emphasis is on continued development of the audio-lingual skills and structural patterns. Listening comprehension and conversational skills are stressed through an increased emphasis on reading comprehension and vocabulary building. Reading selections from authentic sources center around the cities, rural areas and countryside of the German speaking countries.

4222 German 3

Grade: 10, 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: German 2 Reading Level: Average

This course is an extension of German 2 with vocabulary building being emphasized as well as mastery of grammatical concepts. Knowledge about the German speaking cultures will be intensified through a wide variety of readings drawn from authentic sources and through the use of technology.

4231 German 4

Grade: 11, 12 40 weeks
 Offering: Full year Reading Level: Average/High
 Prerequisites: German 3
 Exam: Locally developed exam for Regents credit

Audio-lingual skills are stressed through reading and listening comprehension, supplementary reading from authentic sources, German culture, and grammar review with German being used almost exclusively in the classroom.

4234 German 4 Honors

Grade: 10, 11, 12 40 weeks
 Offering: Full year Reading Level: High
 Prerequisites: German 3

Students who wish to receive the Honors (H) designation on their report card next to the level 4 grade need to complete a special, three-part Honors project. These students will be required to take a written test in the foreign language (part 1) in the fall of that year. If they pass the test, they are eligible to complete the second part of the program which is a lengthier paper written in the target language (part 2) as well as an oral defense with the individual teacher and Foreign Language Instructional Administrator (part 3). Students who do not pass the written test in the fall are not eligible to participate in this program. Students will be informed of the process through their classroom teacher.

4241 German 5

Grade: 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: German 4 Reading Level: Average/High

Recommended for students who plan to continue language study in college. Special emphasis is on conversational skills and the ability to read and appreciate written work. Students who wish to receive three college credits may opt to do so by paying college tuition. (SUNY Oswego, Intermediate German 1, Ger 201)

4302 Italian 1

Grade: 9, 10, 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: None Reading Level: Average

This course is an introduction to the use of authentic Italian and the cultural aspects of Italian-speaking people. Special emphasis is placed on conversational skills.

4312 Italian 2

Grade: 10, 11, 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Italian 1 Reading Level: Average

Audio-lingual skills are stressed with increase emphasis placed on reading skills, conversations, compositions and vocabulary. Consistent use of Italian will be required in class.

4322 Italian 3

Grade: 11, 12 40 weeks
 Offering: Full year Reading Level: Average
 Prerequisites: Italian 2

This course is designed to develop greater proficiency in listening, speaking, reading, and writing in Italian, while broadening understanding of Italian culture. Selected readings, cultural videos, projects of interest, and group discussions will be included. Emphasis will be placed upon written skills through a variety of compositions. Students will be required to work on a series of online projects. Consistent use of Italian will be required in class.

4332 Italian 4

Grade: 12 40 weeks
 Exam: Local Offering: Full year
 Prerequisites: Italian 3 Reading Level: Average

Recommended for students who plan to continue language study in college. Special emphasis is on conversational skills and the ability to read and appreciate written work. Students will be required to work on a series of online projects.

Students who wish to receive 4 college credits may opt to do so by paying tuition. (SUNY Albany, Intermediate Italian 3 credits, AITA 103)

ESL Beginner - 3 Courses**4422 ESL BEGINNER**

4423 ESL ELA

This class fulfills the English requirement and should be counted as part of the English sequence necessary for graduation.

4452 ESL Content

ESL Intermediate - 2 Courses**4432 ESL INTERMEDIATE**

4452 ESL CONTENT

ESL Advanced - 1 Course**4442 ESL ADVANCED**

Grade: 9, 10, 11, 12

40 weeks

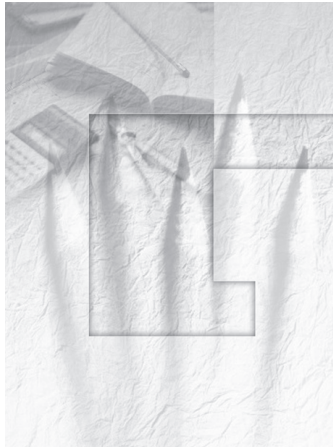
Offering: Full year

These courses are specially designed for non-native speakers of English who have been identified as Limited English Proficient/English Language Learners (LEP/ELL) according to the state-approved identification assessment. Placement after the first year in the program will be based on NYSESLAT scores. Upon completion, the student will receive two elective credits for ESL Beginner or Intermediate, or one elective credit for ESL Advanced.

* Credit will be offered for up to two years in the same level.

2 0 1 2 - 2 0 1 3

CURRICULUM
Handbook



Guilderland

H I G H S C H O O L

8 School Road
Guilderland Center, NY 12085
(518) 861-8591

Thomas Lutsic
High School Principal

Loretta Cozza
Special Education Administrator

Mark Brooks
Assistant Principal

Lisa Patierne
Assistant Principal

Aaron Sicotte
Assistant Principal

Visit us on the Web at:

www.guilderlandschools.org