

# Guilderland

## HIGH SCHOOL

**Empowering**

*all students*

**to Succeed**

*in the 21st*

*Century*

2021-2022



## CURRICULUM GUIDE



# Guilderland

HIGH SCHOOL

## CURRICULUM GUIDE

### Mission

#### STATEMENT

To inspire all students  
to be active life-  
long learners, able  
to achieve their  
highest potential in  
a demanding and  
ever-changing global  
community.



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# Directory



## School Administrators

Michael Piscitelli, Principal	518-861-8591	ext. 1000
Brian Mazza, Assistant Principal	518-861-8591	ext. 1100
Ann-Marie Holmes, Assistant Principal	518-861-8591	ext. 1200
Lisa Knowles, Director for Pupil Personnel Services	518-861-8591	ext. 1002

## Guidance and Counseling Department

Anna Bartlett, Middle School	518-456-6010	ext. 3054
Lynne Baumgartner, High School	518-861-8591	ext. 3000
Danielle Heigel, Middle School	518-456-6010	ext. 3036
Tom Dvorscak, High School	518-861-8591	ext. 3000
Candace Galarneau, High School	518-861-8591	ext. 3000
Ashley Kaplan, High School	518-861-8591	ext. 3000
Amy Knapp, High School	518-861-8591	ext. 3000
Karen Murphy, High School	518-861-8591	ext. 3000
Christina Jager, Middle School	518-456-6010	ext. 3038

## Instructional Administrators

<b>Art &amp; Design, Business:</b> Shannon Elliott	518-861-8591	ext. 1030
<b>Music:</b> Robert Winans	518-861-8591	ext. 1106
<b>English &amp; Social Studies:</b> Alex Finsel	518-861-8591	ext. 1061
<b>Math, Science &amp; Technology:</b> Rachel Anderson	518-861-8591	ext. 1041
<b>Physical Education &amp; Health:</b> David Austin	518-861-8591	ext. 4000
<b>Special Education:</b> Meghan Rivers	518-861-8591	ext. 1002
<b>World Languages, Cultures &amp; ENL K-12:</b> Marcia Ranieri	518-861-8591	ext. 5062



# Timeline for Planning

December 2020: Guilderland High School Curriculum Handbook is available online. Teachers at the high school begin recommending students for classes for the 2020-2021 school year.

## **January 6-14, 2021**

Grade 9 scheduling begins

## **January 6 - Feb. 14, 2021**

Grade 8 scheduling begins

## **January 15-21, 2021**

Grade 10 scheduling begins

## **January 22-30, 2021**

Grade 11 scheduling begins

## **March 31, 2021**

Last day to make course request changes

## **May & June 2021**

Class conflict resolutions are made

## **June 19, 2021**

Last day to submit course change requests

## **Add/drop period**

Course changes must be made before class meets for the fourth time

# Graduation and Testing Requirements



## Course Requirements

Required Subjects	Regents Diploma	Advanced Regents Diploma
English	4 units	4 units
Social Studies	4 units	4 units
Math	3 units	3 units
Science	3 units	3 units
Language	1 unit	1 unit
Health	½ unit	½ unit
The Arts**	1 unit	1 unit
Phys. Ed	2 units	2 units
Electives	4½ units	4½ units
Total	22 units	22 units

- \* To earn the advanced designation, the student must complete one of the following:
- A language other than English (3-4 credits)
  - Career and Technical Education (5 credits) plus one credit in a language other than English; Career and Technical Education include Business and Tech Programs
  - The Arts (5 credits) plus one credit in a language other than English

\*\* The Arts include Visual Art, Media Art, Dance, Theatre, and Music

## Testing Required for Graduation

### Regents Diploma:

- A minimum score of 65 required on all exams.
- 1 Math Regents
- 1 Science Regents
- 1 Social Studies Regents
- English Regents

AND at least one of the following:

- Humanities Pathway: A minimum score of 65 on a second Social Studies Regents or state-approved alternative.
- STEM Pathway: A minimum score of 65 on a second Science Regents or a minimum score of 65 on a second Math Regents or a state-approved alternative.
- Bi-literacy (Language other than English) Pathway: Completion of a foreign language sequence and passing a state-approved LOTE assessment.
- CTE Pathway: Completion of a state-approved CTE program and assessment.
- CDOS Pathway: Completion of all the components of the CDOS Commencement Credential.
- Arts Pathway: Arts Pathway: Completion of an additional Arts course and state-approved arts assessment. Course 5201 (AP) Advanced Placement in Studio Art is the state-approved assessment for Visual Arts. Course 5611 (AP) Music Theory is the state-approved assessment for Music.

### Advanced Regents Diploma

All of the above exams plus additional tests, listed below, with a minimum score of 65 required.

- 2 additional Math Regents exams
- 1 additional Science Regents exam
- 3-4 credits in World Languages & Cultures and a minimum score of 65 on Checkpoint B **OR** a five-unit sequence in art and design, music, business, technology, or career and technical education CTE).



# Course Levels

Students are enrolled in different level courses. Assignment to Advanced Placement, Honors, Regents, and Advanced Sequential Courses is based on abilities and skills evidenced by standardized tests, achievement in previous courses, portfolios, performances, and teacher recommendations.

Student evaluation is a continuous process. Due to the differences in 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.

## Advanced Placement and College Level Courses

College-level courses prepared by the College Entrance Board and local colleges (Albany College of Pharmacy, RIT, SUNY, SCCC, HVCC, Siena 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.

## Advanced Sequential Courses

Students may choose a rigorous pathway of advanced sequential courses in a specific area (e.g. Music, Visual Art, Media Art, World Languages and Cultures, Business, Technology, or Career and Technical Education). Emphasis is placed on the quality of achievement. Assessments vary in each subject area and may, or may not include, an Advanced Placement Exam, Regents Exam, Portfolio, or CTE Designation.

## 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.

# Examinations



## Advanced Placement Examinations

These college-level tests are given in May and are open to all students; however, there are AP 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 \$95 per examination).

## Regents Examinations

All students enrolled in classes that culminate in a Regents exam 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 when 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. There is a student fee payable to the College Entrance Board (of approximately \$94 per examination).

## Course Drop/Add

All the underclassmen may drop a course only if it is replaced by another course. 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.

## NCAA Eligibility

The NCAA has strict academic eligibility requirements for prospective students/athletes to participate in Division I and II intercollegiate athletics. It is the responsibility of the student and parents to check [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net), for up-to-date course eligibility requirements.

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

- Acting and Directing
- Advanced Acting
- Arts/English
- Cinema as Literature
- Journalism
- Digital Broadcasting: News & Sports
- Screenwriting

The following courses **will not** meet the NCAA requirements for Math:

- Accounting/College Accounting
- Applied Math 1
- Applied Algebra 2 & Trig.
- Applied Geometry
- Computer Programming
- Computer Science (AP)
- Intro to Game Design
- Mobile App Design

The following courses **will not** meet the NCAA requirements for Science:

- Health Sciences
- Nursing
- Pharmaceutical Science
- Physical Therapy
- Natural Disasters





# Art & Design

There are three Art & Design courses that meet the requirements for the Fine Arts Credit. These foundational courses are: 5002 Studio in Art, 5006 Studio in Creative Crafts, and 5008 Studio in Media Arts. Students taking any one of these comprehensive courses are eligible to take art elective courses that require a prerequisite.

## 5002 Studio in Art

GRADE: 9, 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: MIXED  
*Prerequisite: None*

This is a full year foundation course with an emphasis on studio problem-based learning activities that explore the electives of the Art Dept. Students will work 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 artwork 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; and demonstrate an understanding of global and aesthetic awareness. **This course meets the Fine Arts requirement for graduation.**

## 5006 Studio in Creative Crafts

GRADE: 9, 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: MIXED  
*Prerequisite: None*

The Studio in Creative Crafts is a foundation course intended to meet the Fine Arts requirement for students in grades 9-12. This survey course will meet the learning styles of all students by allowing for both traditional and non-traditional modes of learning through a deeper exploration of the Elements of Art and Principles of Design. Lessons will include creating art in areas of textiles, bookmaking, paper crafts, fiber arts and other 3-D media. Students will be engaged in a broad exploration of personal ideas and imagery created within the spectrum of Creative Crafts. **This course meets the Fine Arts requirement for graduation.**

## 5008 Studio in Media Arts

GRADE: 9, 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: MIXED  
*Prerequisite: None*

The Studio in Media Arts Course is a foundation course intended to meet the Fine Arts requirement for students in grades 9-12. This survey course will meet the learning styles of all students by allowing for both traditional and non-traditional modes of learning through a deeper exploration of the Elements of Art and Principles

of Design. Lessons will include both computer and fine arts applications, art learning resources that support both visual and media arts history, aesthetic awareness, creative and performing based projects, careers in visual and media arts, traditional and contemporary methods of presentation and various formative and summative assessments. Students will be engaged in a broad exploration of personal ideas and imagery created within the spectrum of the visual and media arts disciplines. Classes may be taught in art studio classrooms, computer labs designed for Media Arts instruction. Students will use a mix of hands-on and digital tools. **This course meets the Fine Arts requirement for graduation.**

## 5102 Drawing and Painting

GRADE: 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: HIGH

*Prerequisite: 85 % average in Studio in Art, Studio in Media Arts or Studio in Creative Crafts, and/or teacher recommendation with student contract*

This is a full-year course recommended for prospective art and design 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, watercolor, 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 artwork.

## 5244 Sculpture

GRADE: 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisite: None*

This course explores the elements of shape and form through the creation and development of three-dimensional artworks. 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 artwork. This is a hands-on course that





requires the student to actively participate and self-evaluate on a daily basis.

### 5122 Graphic Design

GRADE: 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: 80% in Studio in Art, Studio in Media Arts or Studio in Creative Crafts, and/or teacher recommendation with contract.*

This is a full-year class that communicates art and design with technology. This course emphasizes commercial design elements of visual communication with the intent to expand students' media and design literacy skills. In this class, students will use design as a creative process in visual communication. The students will explore various methods used to create and combine words, symbols, and images towards the development of a visual representation of ideas and messages. The student can expect to solve visual problems aided by instruction about the Elements of Art and Principles of Design. A variety of media will be explored with the emphasis on two-dimensional images. Topics of study include Layout and Design, Typography, Illustration, Corporate Identity, Computer Technology: Adobe Photoshop CS6 and Adobe Illustrator CS6, Digital Imaging, Copyright Laws, Printing Process and Procedures. This class promotes 21st Century learning skills through the illustrative visual image. At the end of this course, students will be able to practice presenting and displaying finished artwork.

### 5132 Creative Ceramics I

GRADE: 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: 80% in Studio in Art, Studio in Media Arts or Studio in Creative Crafts.*

This course is designed to introduce students to the basics of ceramics and techniques of rendering in a 3D space. The students will learn various hand-building techniques associated with the medium of clay. 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 3D 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  
READING LEVEL: AVERAGE

*Prerequisite: 80% in Creative Ceramics I, Studio in Art or Studio in Media Arts or Studio in Creative Crafts, and/or teacher recommendation.*

This course is designed to further explore the techniques and concepts introduced in Creative Ceramics 1. At the end of this

course, students will: 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 artwork.

### 5126 Cartooning

GRADE: 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: FULL SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: None*

This 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 ideas through project-based learning. At the end of this course, students will: 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; and prepare, present and display finished artwork. *Priority given to students who met fine arts requirements with Studio in Media Arts.*

### 5172 Animation

GRADE: 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: SPRING SEMESTER

*Prerequisite: None*

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 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 artwork. *Priority given to students who met fine arts requirements with Studio in Media Arts.*

### 5007 Art & Game Design

GRADE: 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: None*

What does a game designer do? Students in this course will invent characters, develop stories and settings, learn game theory and gameplay. Short animations will include dynamic graphics, levels, challenges and bonuses. Students will use Construct 2, an HTML5-based 2D drag-and-drop game editor. (Students do not need to know how to write code or be able to draw).

**5005 Advanced Studio in Art**

GRADE: 10, 11, 12                      40 WEEKS  
EXAM: LOCAL                              OFFERING: FULL YEAR  
READING LEVEL: MIXED

*Prerequisites: Studio in Art, Studio in Media Arts or Studio in Creative Crafts. 80% average in Studio in Art or Studio in Media Arts and Creative Ceramics I and/or teacher recommendation.*

This course is designed to further develop students' conceptual ideas through an advanced understanding of the Elements of Art and Principles of Design. The course will focus on further developing students' skills and techniques in the Two and Three-Dimensional Arts and the Electronic Arts before moving on to an advanced elective. Students will work on project-based activities that focus on creativity, innovation, responsibility, independence and self-directed learning. 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.

**5171 Advanced Animation**

GRADE: 10, 11, 12                      20 WEEKS  
EXAM: LOCAL                              OFFERING: SPRING SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: Animation*

This 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, 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 class, 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 Claymation.

**5174 Studio in Photography 1 in Art**

GRADE: 10, 11, 12                      20 WEEKS  
EXAM: LOCAL                              OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: None*

This course will further explore visual communication through the use of the camera as a tool. Students will use both natural and artificial light as the medium. They will create a series of photographic works that push their conceptual ideas through an advanced understanding of the Elements of Art and Principles of Design. Students will examine contemporary artists and the visual narratives they present in our global society. This course is designed for the serious art student seeking to create a digital photographic portfolio. Students will be expected to participate in project-based-problem-solving activities where creativity, innovation, responsibility, independence and self-directed learning will be explored. 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; prepare, present and display finished artwork.

**5176 Studio in Photography 2 in Art**

GRADE: 10, 11, 12                      20 WEEKS  
EXAM: LOCAL                              OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: 80% average in Studio in Photography I*

This course further explores visual media communication through the use of the camera as a tool to create photographic compositions with an emphasis on media arts portfolio building. Students will use both natural and artificial light as a medium. They will create a series of photographic works that pushes their literal and conceptual ideas through advanced understanding of the Elements of Art and Principles of Design. Students will experience: mounting, framing, displaying and showing photographic artworks in a gallery setting. Students will examine historical and contemporary artists and the visual narratives they present in our global society. This course is designed for the serious art student seeking to create a digital photographic media portfolio. Students will be expected to participate in project-based- problem-solving activities where creativity, innovation, responsibility, independence and self-directed learning will be explored. At the end of this course students will be able to; demonstrate critical and higher-order thinking skills; solve problems through the creative process; articulate and communicate their personal expression in the visual arts; identify various artist styles and art historical periods; prepare, present and display finished artwork.

**5202 Advanced Art 1**

GRADE: 11, 12                              40 WEEKS  
EXAM: LOCAL                              OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: 80% average in Drawing & Painting, Studio in Art, or Studio in Media Arts or Studio in Creative Crafts, and/or teacher recommendation with student contract.*

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 forms 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 student's 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  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: 85% in Drawing & Painting, Studio in Art, or Studio in Media Arts or Studio in Creative Crafts, and Advanced Art I.*

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; visually communicate and adapt one or more of the following: abstractions of mechanical objects, psychological imagery, architectural space and social concerns; and prepare, present and display finished artwork.

### 5201 (AP) Advanced Placement in Studio Art

GRADE: 12 40 WEEKS  
EXAM: AP EXAM OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisite: 85% average in Drawing & Painting, Studio Art, Studio in Creative Crafts, Studio in Media Arts.*

This course is part of the College Board Program giving students the opportunity to pursue college-level studies 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. It's 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 the 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. This course is designed to prepare students for the Advanced Placement in Studio Art exam. It is expected that students will sit for the AP exam in May. The AP Portfolio is the state-approved assessment for the Arts Pathway (Exam fee approximately \$95.)

### 5302 Portfolio Prep

GRADE: 12 20 WEEKS  
EXAM: NONE OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: Studio in Art or Studio in Media Arts or Studio in Creative Crafts, and one full credit in any art elective(s) and/or teacher rec with student contract.*

The portfolio prep class is geared for highly motivated seniors interested in preparing and strengthening their portfolio. This course helps to ensure that students are prepared to meet their individual artistic goals after high school. Students will create their own objectives for the class based on what they need for their portfolios, their chosen medium, and areas of visual interest. This is an excellent opportunity to take risks and try out ideas that have not been suitable for the projects given in previous art courses. Students must be proficient in the mediums they choose, and have the initiative to take it to a higher level with the teacher as a mentor. This framework provides the student with time to create the art they want while obtaining the feedback they need to improve it to make it better. Areas of concentration may include but are not limited to Drawing, Paint, 2D design, mixed media, sculpture, printmaking,

and photography. Because this course is meant to supplement the intermediate and advanced curriculums of the art department, students will take this class in addition to the art classes they are taking in their sequence, not as a replacement for an advanced level of study. Students interested in art should consider taking this class even if they are not planning on pursuing an art career or majoring in art in college as many colleges are now providing scholarship money to students who submit their art portfolio as a supplement to their application. Portfolio Prep is a supplemental course. Students must take this course in conjunction with another art elective, not as a replacement.

### 5173 Studio in Film

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SPRING SEMESTER  
READING LEVEL: AVERAGE

*Prerequisite: None*

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 storytelling 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 setting. 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 5-10 minute video.

### 5180 Advanced Media Arts

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: HALF-YEAR  
READING LEVEL: AVERAGE/HIGH

*80% average in Studio in Art or Studio in Media Arts or Studio in Creative Crafts, and/or teacher rec.*

This course is intended to explore more advanced concepts in Media Arts through the Elements of Art and Principles of Design. Continued access to large format and 3D printing will be available to students when creating works. Students will be expected to participate in project-based problem-solving activities where creativity, innovation, responsibility, independence and self-directed learning will be explored. Students will explore and create traditional and contemporary modes of visual communication through various computer applications to include, but not limited to, Adobe Master Suite, Photo-shop, Introduction to Web Design, Introduction to Gaming Design, Introduction to Film and Introduction to Animation. At the end of this course, students will be able to: respond to a collection of media-based artwork that demonstrates an understanding of social, cultural and/ or political experiences, demonstrate critical and higher-order thinking skills; solve problems through the creative process, articulate and communicate their personal expression in the Media Arts, identify various artist styles and art historical periods; prepare, present and display finished artwork.





# Business

The GHS CTE Programs of Study establish a foundation in business and work/life skills that are wholly transferable for future careers. All Business courses may be used for CTE or CDOS credential hours. (Full year = 108 hours, ½ year = 54 hours)

Computer Essentials	Personal Finance***	Work-based Learning Programs	
Career and Money Skills	Marketing	Career Internship Program	School to Work Program
Sports Marketing	Hospitality, Restaurant & Tourism Management*	Work Experience Program	School to Work Class (I & II)
Entrepreneurship	Corporate Law*		
Personal law	Vocational Skills, Career & Finance Management		
Basic Computer Applications	Social Media Marketing & E-Commerce		

\* College Credit Course

\*\*\* Satisfies Math or Social Studies Graduation Requirement

Students participating in at least 216 hours of any Career and Technical Education ("CTE") Credits, including 54 hours of Work Based Learning may be eligible for the CDOS Pathway option for graduation. (This can be done in a variety of ways and hours may be accrued beginning in 9th grade. See NYSED website for details)

Note: 216 hours is equivalent to 2 units of study. The 54 hours of Work Based Learning can include:

1. Career Internship Program ("CEIP")
2. Work Experience Program
3. School to Work Program

CTE Program of Study Requirements	GHS CTE Programs of Study					
	Business Education:		Business Education:		Business Education:	
	<ul style="list-style-type: none"> <li>Accounting/Finance</li> <li>3.5 Units</li> </ul>		<ul style="list-style-type: none"> <li>Business Management/Entrepreneurship</li> <li>4.0 Units</li> </ul>		<ul style="list-style-type: none"> <li>Marketing</li> <li>3.5 Units</li> </ul>	
Meaningful Learning Strand of Courses	Units	Course	Units	Course	Units	Course
	.5	Career and Financial Management (CFM)	.5	Career and Financial Management (CFM)	.5	Career and Financial Management (CFM)
	.5	Personal Finance	.5	Computer Essentials	.5	Computer Essentials
	.5	Personal Law	.5	Entrepreneurship	1.0	Marketing
	1.0	Accounting I OR College Accounting	.5	Social Media Marketing	.5	Social Media Marketing
	.5	Corporate Law OR Computer Essentials	1.0	Accounting OR College Accounting	.5	Sports Marketing
	.5	Workplace Experience: Accounting/Finance	.5	Corporate Law OR Hospitality Management OR Personal Finance OR	.5	Workplace Experience: Marketing
	13 College Credits Available		19 College Credits Available		6 College Credits Available	





### 6004 Career and Money Skills

GRADE: 9, 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: LOCAL      (½ CREDIT)  
 READING LEVEL: MIXED  
*Prerequisite: None*

Learn about the economy, explore a variety of jobs and careers and develop skills for success in our ever-changing global workplace. This course will increase your understanding of how to manage your money. You will learn to apply financial decision-making skills to topics including: money management, spending, and credit, as well as saving and investing. The course includes practical, hands-on projects such as: creating job/career based personal budgets, utilizing checking and saving accounts, increasing your understanding of investing and retirement planning, gaining knowledge of handling debt and credit management, and understanding insurance and taxes.

### 6372 Computer Essentials

GRADE: 9, 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: LOCAL      (½ CREDIT)  
 READING LEVEL: MIXED  
*Prerequisite: None*

Essentially the most useful class you will ever take! Students will learn how to use computer programs such as Microsoft Word, PowerPoint, Excel, Access, Publisher and Google programs to enhance their ability to complete assignments during their high school career and beyond. Touch typing will be reviewed. **You can earn three transferable college credits.** (SCCC - Intro to Computers - CIS 121).

### 6132 Sports & Entertainment Marketing

GRADE: 9, 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: PROJECT      (½ CREDIT)  
 READING LEVEL: MIXED

This course explores the phenomenal growth of 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.

### 6092 Personal Finance (HVCC)

GRADE: 11, 12 (PREFERENCE TO SENIORS)      READING LEVEL: MIXED  
 EXAM: LOCAL      OFFERING: ONE SEMESTER  
    (½ CREDIT)  
*Prerequisite: None*

How does the consumer drive the American market? Which budgeting, saving, and investing habits ensure 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. You can earn three transferable college credits.** (HVCC).

### 6122 Marketing (SCCC)

GRADE: 10, 11, 12      READING LEVEL: MIXED/HIGH  
 EXAM: LOCAL      OFFERING: FULL YEAR (1 CREDIT)  
*Prerequisite: 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 three transferable college credits.** (SCCC - Principles of Marketing - MKT 223).

### 6162 Corporate Law (SCCC)

GRADE: 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: N/A      (½ CREDIT)  
 READING LEVEL: MIXED  
*Prerequisite: None*

Develop important life skills as you study legal ethics, criminal law, civil law, court systems, trial procedures, legal 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 three transferable college credits. (SCCC - Business Law - BUS 121)

### 6172 Personal Law

GRADE: 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: N/A      (½ CREDIT)  
 READING LEVEL: MIXED  
*Prerequisite: None*

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, students will examine some of the legal rights and responsibilities we have as individuals. Whether you're interested in a career in law or you just want to make the most of your adult life, this is a course for you.

### 6222 Entrepreneurship & Management (SCCC)

GRADE: 10, 11, 12      OFFERING: ONE SEMESTER  
 EXAM: LOCAL      (½ CREDIT)  
 READING LEVEL: MIXED  
*Prerequisite: 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. **You can earn three transferable college credits.** SCCC - Intro to Business - MGT 123).

**6125 Hospitality, Restaurant & Tourism Management (SCCC)**

GRADE: 11, 12  
EXAM: PROJECT  
READING LEVEL: N/A

OFFERING: ONE SEMESTER  
(1/2 CREDIT)

*Prerequisites: None*

The hospitality industry is one of the most fascinating, fun and exciting industries in which to work. This introductory course provides an overview of the hospitality, restaurant, and tourism industries. We will study these industries' growth and development, their distinguishing characteristics, trends and current concerns. Students are introduced to career opportunities and the employability skills needed to succeed in specific hospitality fields. **You can earn three transferable college credits.** (SCCC - Intro to Hospitality - TAT 121).

**6232 Accounting I**

GRADE: 10, 11, 12  
EXAM: LOCAL

READING LEVEL: AVERAGE  
OFFERING: FULL YEAR (1 CREDIT)

*Prerequisite: Two years high school 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 math.

**6231 College Accounting (HVCC)**

GRADE: 11, 12  
EXAM: LOCAL

READING LEVEL: MIXED/HIGH  
OFFERING: FULL YEAR (1 CREDIT)

*Prerequisite: Regents Level Algebra 2 & 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 assets, 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 four college credits.** (HVCC - Financial Accounting - ACTG 110).

**6370 Vocational Skills Career & Finance Management**

GRADE: 10, 11, 12  
EXAM: PROJECT

READING LEVEL: N/A  
OFFERING: FULL YEAR (1 CREDIT)

*Prerequisite: None*

Increase economic awareness by exploring a variety of jobs and developing communication and other soft skills for the workplace. This introductory course will increase your understanding of the workplace and develop employability skills, including resume and interview preparation. Course includes money management, budgeting, and consumerism. A practical project-filled course.

**6371 Basic Computer Applications**

GRADE: 9, 10, 11, 12  
EXAM: PROJECT  
READING LEVEL: N/A

OFFERING: ONE SEMESTER  
(½ CREDIT)

*Prerequisite: None*

A two-part course of introductory keyboarding instruction (emphasis on proper finger placement and positioning) and followed by an introduction to Google Apps, Microsoft Word, Excel and PowerPoint.

**6302 Work Experience Program**

GRADE: 12  
EXAM: PROJECT  
READING LEVEL: N/A

OFFERING: ONE SEMESTER  
(½ CREDIT)

*Prerequisite: None*

Did you realize that you can earn high school credit for the job you currently have? This course consists of both a class and a work component. The class sessions for this course help develop your goal setting, decision making, job preparation, workplace communication, interpersonal and problem-solving skills. In addition, you will enhance your knowledge of work relationships and learn to keep them positive and professional. You will have the opportunity to apply your newly learned skills in your workplace. Students will develop ready-to-work "soft skills" essential and transferable to the workplace, as well as an understanding of qualities conducive to job success and personal growth.

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

- *MUST provide their own transportation to the 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**

GRADE: 12  
EXAM: PROJECT  
READING LEVEL: N/A

OFFERING: ONE SEMESTER  
(½ CREDIT)

*Prerequisite: 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 Internship 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 teamwork 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.

*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.*

### **8562 School to Work Career Development & Occupational Standards (“CDOS”)**

The School to Work CDOS class provides students enrolled in the STW Program with academic knowledge and resources relating to careers, life and employment. Through participation in this course, it is intended to help students to develop the employability and life skills to be able to be employed upon their exit from high school. The information and activities discussed will reinforce the experiences students are having in their work settings. Students will engage in activities and lessons that develop their awareness and understanding of workplace expectations and concepts including positive attitude, integrity, teamwork, attendance and punctuality, time management, good work habits, hygiene and work safety. In addition, students will work on career research, build resumes, complete job searches and practice interviewing techniques. Students will also learn about managing and budget money concepts. This course will guide students to develop skills and behaviors that will help them independently navigate within their workplaces and the community.

### **8561 School to Work Community Skills Program (“CSP”)**

The School to Work CSP class provides students enrolled in the STW Program with academic information and activities to reinforce the experiences students are having in their work settings. The students will engage in activities and lessons that develop their awareness and understanding of workplace concepts including: positive attitude, integrity, teamwork, attendance and punctuality, time management, good work habits, hygiene and work safety. In addition, students will work on career research, learn about resumes and interviewing and money management concepts. Students will be guided and supported during their lessons and activities by teachers and teaching assistants. This course will guide students to develop increased independence within a workplace setting and the community.

### **8346 Social Media Marketing & E-Commerce**

GRADE: 10, 11, 12

EXAM: LOCAL

*Prerequisite: None*

READING LEVEL: MIXED

OFFERING: ONE SEMESTER

Social media has helped give consumers a voice, connect them with their friends and other like-minded consumers, and has given them considerable power over marketers and brands. This course takes an in-depth look at social networks and social media platforms (ex: Twitter, Facebook, LinkedIn, YouTube, Google, etc.), Internet businesses, Internet marketing and advertising and the role that social media, marketing and advertising play in a global environment. Students will learn how social media strategies can be used effectively in marketing programs when they should be used, how to build, measure, track, and evaluate their performance and effectiveness.



# Career and Technical Education

Students have the opportunity to take courses at the Career and Technical Education (CTE) centers through Capital Region BOCES at the Albany Campus or the Center for Advanced Technology at Mohonasen. CTE programs allow students to earn 3 credits in the CTE program and 1 credit of an integrated academic course in Math, Science, or English, depending on the program. Below is a listing of programs we participate in; please see the catalog through Capital Region BOCES (<https://www.capitalregionboces.org/career-technical-education/courses-programs/>) for more specific information on each program. Campus tours, individual visits, and open houses are held throughout the year.

## Architecture and Construction

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- Building Trades
- Carpentry Services
- Electrical Trades
- Heating, Ventilation, Air Conditioning and Refrigeration (HVAC)
- Entertainment Technology I and II

## Government and Public Administration

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- Criminal Justice

## Health Science

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- Health Science
- New Visions: Health Careers - Ellis and St. Peter's Hospitals (Off-Campus, Transportation not provided)
- Sterile Processing Technician
- Health Careers

## Hospitality

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- Culinary Arts and Hospitality Technology Culinary Arts Tech Prep
- Culinary - Food Services

## Information Technology

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- Game Design and Implementation Internet Application Design

## Manufacturing

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- Engineering Technician
- Manufacturing and Manufacturing Technology Welding and Metal Fabrication

## Retail and Office Services

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- Cosmetology
- Global Fashion Studies I and II
- Pet Tech
- Retail and Office Services
- Vocational Training and Transition

## Transportation, Distribution and Logistics

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- Auto Body Collision Repair
- Automotive Services/Small Engine Repair Automotive Trades Technology Automotive Tech Prep
- Auto Body Refinishing
- Automotive Youth Educational System
- (AYES) Automotive Technician
- Diesel Tech I and II





# 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 on student achievement in English Language Arts pertaining to developing reading, writing, speaking and listening, and language skills. Guilderland students study a wide range of fiction and non-fiction texts. Through reading, writing, and discussion, all students will develop broader perspectives, reconcile multiple textual interpretations, and become more critically aware of language and literature's aesthetic qualities. Students at each grade level will have the opportunity to engage with challenging texts in order to expand their literacy skills, deepen their understanding and critical thinking, and discover an appreciation for the role that literature plays in our lives. Additionally, students will study the structure of argument and become more skilled at presenting their ideas in a thoughtful and effective manner through writing and speaking.

Grade 9	Grade 10	Grade 11	Grade 12
English 9R	English 10R	English 11R	<p>Students are required to take a minimum of one credit of ELA electives beyond successful completion of the three year English sequence that culminates with the CC ELA Regents Exam at the end of grade 11.</p> <p>Some ELA electives can be taken in grades 11 and 12.</p>
English 9A	English 10A	English 11A	
English 9H	English 10H	English 11 Honors AP	
		AP Language & Composition	
		CC ELA Regents	

## 0102 English 9 Regents

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisite: English 8*

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.

## 0101 English 9 Honors

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: MIXED  
*Prerequisite: English 8 and English 9 Honors eligibility*

Students will complete the 9th grade Regents ELA curriculum. In addition, this course emphasizes a progressive increase in text complexity, rigorous evidence-based conversation and analysis of text, emphasis on close reading engagement, advanced application

of academic literary vocabulary, concepts, and skills, and reflective writing for individual and peer growth.

## 0130 English/Global History 9 – Aligned

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisite: English 8*

This English course is aligned with Global History 9. It helps students to develop an awareness of various cultures ranging from 10,000 B.C.E. to 1750. Students will explore the art and literature of early civilization through readings, presentations, creative writing and research projects.

## 0212 English 10 Regents

GRADE: 10 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisite: English 9*

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.

### 0211 English 10 Honors

GRADE: 10 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: CHALLENGING

*Prerequisite: English 9R, 9A, or 9H and teacher recommendation*

Students will complete the 10th grade Regents ELA curriculum. In addition, this course emphasizes a progressive increase in text complexity, rigorous evidence-based conversation and analysis of text, emphasis on close reading engagement, advanced application of academic literary vocabulary, concepts, and skills, and reflective writing for individual and peer growth.

### 0213 English 10 Focus Regents

GRADE: 10 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR

*Prerequisites: English 9*

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.

### 0132 English/Global History 10 – Aligned

GRADE: 10 READING LEVEL: AVERAGE/HIGH  
EXAM: GLOBAL REGENTS AND 40 WEEKS  
PORTFOLIO OFFERING: FULL YEAR

*Prerequisites: English 9R, 9A, 9H*

This English course is aligned with Global History 10. It explores the relationship between literature and history. Students examine social studies units in-depth, using fiction, poetry and non-fiction to deepen their understanding of the units. Students will develop an awareness of various historical events ranging from 1750 to the present. \*This course may be taken for Honors credit if the student demonstrates mastery of designated performance standards.

### 0302 English 11 Regents

GRADE: 11 40 WEEKS  
EXAM: REGENTS OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisite: English 10*

Through reading and writing in a variety of genres, students will study how writers use their language and craft to shape a text. Direct instruction in writing multiple source papers using primary and secondary sources, literary analysis essays, resumes and letters of application and thoughtful personal reflections (which may be the basis for college application essays) will be provided. This course will prepare students for the Common Core ELA Regents Exam in June.

### 0331 AP English 11 – Language & Composition

GRADE: 11 40 WEEKS  
EXAM: ENGLISH REGENTS OFFERING: FULL YEAR  
READING LEVEL: CHALLENGING EXAM COST: APPROXIMATELY \$94

*Prerequisite: English 10R, 10A or 10H and teacher recommendation*

Students will study how our language works and engage in rhetorical analysis. There is a focus on the ways writers use

language to shape a reader's reaction. Students will read a variety of challenging nonfiction texts from a variety of genres and historical periods. This course is designed to prepare students for the Advanced Placement Language and Composition exam in May as well as the Common Core ELA Regents Exam in June. Students will complete a summer reading project to prepare for this course.

### 0134 English/U.S. History & Government 11 – Aligned

GRADE: 11 READING LEVEL: AVERAGE/HIGH  
EXAM: ENGLISH & US HISTORY 40 WEEKS  
REGENTS AND PORTFOLIO OFFERING: FULL YEAR

*Prerequisites: English 10*

This aligned course centers on the cooperative discovery of the history and literature of the United States. Focused on the societal perception of "The American Dream," students will explore how this concept has evolved over time. There is great emphasis on independent reading, projects and presentations. Students will be asked to complete a summer project to prepare for the course. \*This course may be taken for Honors credit if the student demonstrates mastery of designated performance standards. Students will take the Common Core ELA Regents exam in June.

### 0415 College Writing (SCCC)

GRADE: 12 20 WEEKS  
EXAM: LOCAL OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE COST: \$58/CREDIT HOUR (2018-19  
TUITION RATE)

*Prerequisites: English 11*

This course provides a foundation in academic discourse by developing effective communication skills with an emphasis on expository writing; an oral presentation is required. This course is based on ENG 123: College Composition at SCCC. Students may earn three college credit hours upon successful completion of this class

### 0416 College Literature & Writing (SCCC)

GRADE: 12 20 WEEKS  
EXAM: LOCAL OFFERING: TBD  
READING LEVEL: AVERAGE/HIGH TUITION COST: \$58 PER CREDIT  
HOUR

*Prerequisites: College Writing/AP Lang. & Comp.*

This course encourages students to use writing to explore the ways in which literature functions as an art form. Writing and research techniques introduced in College Writing and AP Language & Composition are strengthened and refined. This course is based on ENG 124: Literature & Writing at SCCC. Students may earn three college credit hours upon successful completion of this class.

### 0502 Creative Writing

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: TBD  
READING LEVEL: AVERAGE

*Prerequisites: English 10, 11*

Class activities in this half-year course include posting to a blog as well as intensive work on completing finished pieces in a variety of genres but with primary emphasis on poetry, short fiction and long fiction. Students share their work with others in the class.



### 0512 Cinema as Literature

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

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.

### 0522 Digital Broadcasting: News & Sports

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: Instructor permission*

Students will work to produce a daily newscast, The GHS Reporter, that runs during our Homeroom period. In addition to generating story ideas relating to the school and community, students will learn how to write interview questions, write a news story using several sources, determine visuals that will enhance the story for the television audience, and use digital technology to pull it all together. Students will also learn to write effective news stories to be read from the anchor desk, taking advantage of print and digital sources to fill our Headlines, Sports, Local News and Entertainment segments.

### E532 Screenwriting

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

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.

### 0603 Journalism

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

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.

### 0702 Public Speaking (SCCC)

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE      COST: \$58/CREDIT HOUR (2018-19  
    TUITION RATE)

*Prerequisites: English 10, 11*

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. This course is based on COM 105: Public Speaking at SCCC. Students may earn three college credit hours upon successful completion of this class.

### 0722 Shakespeare

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

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

GRADE: 12                              20 WEEKS  
 EXAM: LOCAL                      OFFERING: SECOND SEMESTER  
 READING LEVEL: CHALLENGING  
*Prerequisites: English 10, 11; College Writing (first semester) and permission of instructor*

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.

### 0422 The Holocaust through Literature

GRADE: 11, 12                      20 WEEKS  
 EXAM: LOCAL                      OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

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, research, and guest speakers.

**0811 English 12AP Literature & Composition**

GRADE: 12 40 WEEKS  
 EXAM: AP OFFERING: FULL YEAR  
 READING LEVEL: CHALLENGING EXAM COST: APPROX. \$94  
*Prerequisites: English 11R, 11A, 11H, or AP Lang & Comp and teacher rec.*

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 lifelong 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.

**0801 Syracuse University Project Advance English**

GRADE: 12 40 WEEKS  
 EXAM: NONE OFFERING: FULL YEAR  
 READING LEVEL: CHALLENGING TUITION COST: \$115/CREDIT HOUR (2018-19 TUITION RATE).  
*Prerequisites: English 11R, 11A, 11H, or AP Lang & Comp and teacher rec.*

SUPA is Syracuse University Project Advance, in which Syracuse University classes are taught by adjunct professors on high school campuses. SUPA English is a full-year course (6 SU credits) consisting of two semester-long courses: WRT 105: Practices of Academic Writing and ETS 181: Class and Literary Texts. Practices of Academic Writing is a studio course focusing on the aims, strategies, and conventions of academic prose, especially analysis and argument, and involves the study and practice of writing processes, including critical reading, collaboration, revision, editing, and the use of technology. We write as a mode of thinking, to make an argument, to communicate, and to wrestle with issues of power, history, difference and community, especially as played out in contemporary culture. In-Class and Literary Texts, questions of social class have long been a focus of novelists', poets' and essayists' work. Parallel to the ways that writers affect and engage social class, critical readers can engage with the concepts of social class as they read. Concerned with the social divisions of privilege, wealth, power and status, these concepts provide a set of lenses through which to read the world of work, home and community in a range of literary and other texts. This course provides an introduction to these concepts and exposes students to key texts in literature, film and other media as a way of fostering critical engagement and developing richer social responsibility through textual interpretation. Both courses employ a portfolio model, where students collect and evaluate work over time. Hence, there is no exam associated with the course.

**0402 English 12 Focus**

GRADES: 12 20 WEEKS  
 EXAM: LOCAL OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 11 enrolled in Focus program*

Reading and writing skills are further developed in a small class with a structured, supportive atmosphere. Attention is given to individual choice in reading and writing, with an emphasis on developing appreciation for and skill in both activities. Critical thinking activities are promoted through the use of movies, music, and literature of several genres. Skills necessary for individual post-high school plans are developed.

**0542 Sports Composition and Literature**

GRADE: 11, 12 20 WEEKS  
 EXAM: LOCAL OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

This course is designed to use composition and literature – fiction, poetry, essays, biographies, autobiographies, journalism, and films – to illuminate and refine our understanding of the impact of sports on our personal and social lives. Some of the issues to be examined are: the nature of sport itself, the role of sports in defining values, the effects of competition, and racism/sexism in sports.

**0552 Ethics of Digital Citizenship**

GRADE: 12 20 WEEKS  
 EXAM: LOCAL OFFERING: TBD  
 READING LEVEL: AVERAGE  
*Prerequisites: English 10, 11*

This course would be a semester course that would explore the process of establishing a productive and positive online presence. Although our current students are considered “digital natives,” they are faced with increasingly complicated ethical and philosophical considerations as they shape their online presence and participate in digital citizenship. This course would explore some of those issues, including (but not limited to): blogging, plagiarism, effective online forum participation, cyberbullying, social media as a force for political/social change/engagement, empathy and the web, online activism and vigilantism (i.e. Anonymous and Wikileaks) and the Internet as a democratizing force.

**0599 Civil Conversation**

GRADE: 12 20 WEEKS  
 EXAM: NONE OFFERING: ONE SEMESTER  
 READING LEVEL: AVERAGE  
*Prerequisites: English 11R, 11A, 11H, or AP Lang & Comp and teacher rec*

This course is designed to teach students how to effectively engage in and facilitate civil discourse among peers (and other audience members) on various topics, which includes topics borne from student interest, current events, societal issues, and philosophical differences. During the half year course, students will learn how to choose topics, conduct research based on individual inquiry, present research findings to a group, and facilitate civil conversation and discussion informed by their topic, research, and audience. Moreover, students will also learn how to engage in academic





discourse both orally and through writing, emphasizing the effective use of rhetoric for the purpose of facilitating communication, engaging in conversation, and reaching out to diverse audiences. Civil discourse is a skill to help achieve the goal of lifelong learning, listening, speaking, synthesizing, and disagreeing respectfully. Pending approval, this course is based on COM 100: Introduction to Human Communication at SCCC. Students may earn three college credit hours upon successful completion of this class.

## 802 Syracuse University Project Advance Africana Studies

GRADE: 12	20 WEEKS
EXAM: NONE	OFFERING: ONE SEMESTER
READING LEVEL: CHALLENGING	TUITION COST: \$115/CREDIT HOUR (2018-19 TUITION RATE).

*Prerequisites: English 11R, 11A, 11H, or AP Lang & Comp and teacher rec*

SUPA is Syracuse University Project Advance, in which Syracuse University classes are taught by adjunct professors on high school campuses. SUPA Africana Studies is a half-year course (3 SU credits) consisting of one semester-long course: AAS/ANT 112: Introduction to African American Studies. The course introduces central themes that comprise the interdisciplinary subject of African American Studies. Also referred to as Africana Studies, African Diaspora Studies, or African and African American Studies, the field places the study of North Americans of African descent in a broader context that considers connections to the African continent and to other people of the African Diaspora. This framework enables students to explore common and divergent experiences and identities among varied Black populations. Course materials are designed to introduce students to scholarly approaches to experiences and identities of people of African descent. They offer first-hand experience in locating and analyzing the types of primary sources used to conduct research. Essays, exams, and primary source analyses stress the development of analytic skills.

A final project offers practice in developing viable research topics, locating and analyzing sources, and making oral and visual research presentations.

## 0943 Acting and Directing I

GRADE: 9, 10, 11, 12	20 WEEKS
EXAM: LOCAL	OFFERING: ONE SEMESTER
READING LEVEL: AVERAGE	

*Prerequisites: None*

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. The preparation of scenes for public viewing concludes this course. **This course meets NYS graduation requirements for The Arts.**

## 0944 Acting and Directing II

GRADE: 9, 10, 11, 12	20 WEEKS
EXAM: LOCAL	OFFERING: ONE SEMESTER
READING LEVEL: AVERAGE	

*Prerequisites: Acting and Directing*

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. **This course meets NYS graduation requirements for The Arts.**



# Reading & Library Information Science

## 8265 Literacy Tutorial

GRADE: 9, 10, 11, 12  
20 WEEKS

OFFERING: BOTH SEMESTERS

*Prerequisites: None*

Literacy Tutorial is designed for students who need developmental or remedial support in reading. More specifically, Literacy Tutorial is tailored to meet the student's individual reading needs, which include, but are not limited to, reading comprehension, written expression of comprehension, word study (including Wilson decoding), fluency, vocabulary development, and test-taking strategies. Informal reading inventories and other diagnostic assessments are used to help determine a student's needs, establish learning targets for individual growth, and inform instruction. In addition, Literacy Tutorial provides English Academic Intervention Services to help support and prepare students for success on the Common Core English Regents Examination. This half-credit course is open to regular and special education students and can be taken more than once to provide sustained reading support.

## 9899 E=mc2

GRADE: 10, 11, 12  
EXAM: PORTFOLIO AND  
JOURNALING REVIEW

READING LEVEL: HIGH  
OFFERING: FULL YEAR

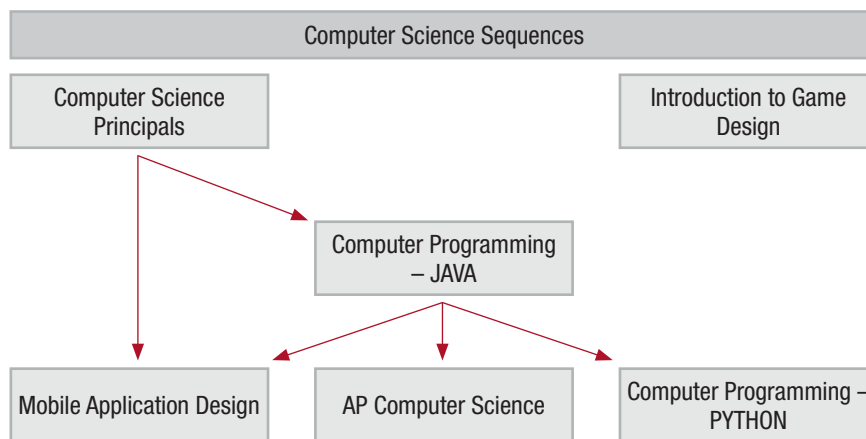
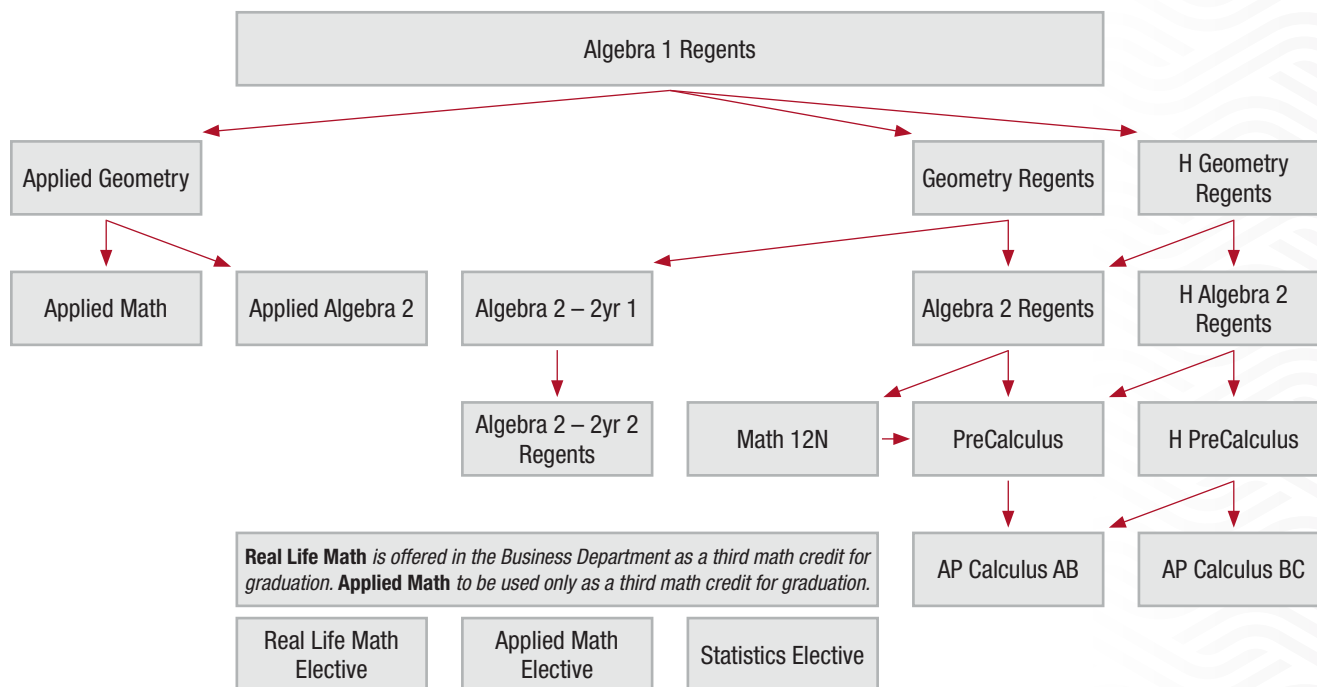
*Prerequisites: Instructor approval*

Exploring with Mindful Creativity & Curiosity is a guided inquiry course that allows a student to choose their own topic to research and build their project over the course of the school year. The librarians serve as the research and inquiry coordinators and facilitators of this program. Instead of following a traditional curriculum, the coordinators allow students to focus on innovation skills - the 5C's - creativity, critical thinking, communication, collaboration, and curiosity. The course's goal is not to master content, but to question skills to help facilitate the 5C's for a deeper understanding of what it means to think and learn, rather than memorize and recite.



# Mathematics

New York State requires that all students must pass one math Regents Exam to get a diploma. For most students, this will be the Algebra 1 Exam. For an Advanced Regents Diploma, students must pass all three of the math Regents Exams: Algebra I, Geometry and Algebra 2.



## 2009 Algebra1 (Common Core)

GRADE: 9      40 WEEKS  
 EXAM: REGENTS      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE

Algebra 1 is the first course in a three-year Regents sequence of courses aligned to the Common Core Standards. The course culminates with the Algebra 1 Regents Exam in June. Concepts taught in this course include factoring by various methods, equation

solving (linear, quadratic, and exponential), statistics, functions, systems of equations, sequences, operations with polynomials, and graphing quadratics. Students will be required to justify mathematical statements, explain their mathematical reasoning, and apply these concepts to application problems. A graphing calculator will be required for the course; recommended model is the TI-84+.

**2025 Geometry (Common Core)**

GRADE: 9, 10                      40 WEEKS  
EXAM: REGENTS                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 1 (Final average of 75)*

Geometry is the second course in a three-year Regents sequence of courses aligned to the Common Core Standards. The course culminates with the Geometry Regents Exam in June. Concepts taught in this course include constructions, transformations, Euclidean proofs, quadrilaterals, similar triangles, basic right triangle trigonometry, coordinate geometry proofs and problems, solids and circles. Students will be required to justify mathematical statements, explain their mathematical reasoning and apply these concepts to application problems. A graphing calculator is required for the course; the recommended model is the TI-84+.

**2024 Honors Geometry (Common Core)**

GRADE: 9, 10                      40 WEEKS  
EXAM: REGENTS                      OFFERING: FULL YEAR  
READING LEVEL: HIGH

*Prerequisites: Algebra 1 (Final average of 90)*

This course is intended for students who have accelerated their mathematics program by taking the Algebra 1 course in 8th grade. Geometry is the second course in a three-year Regents sequence of courses aligned to the Common Core Standards. The course culminates with the Geometry Regents Exam in June. The course will include all the topics in the Regents Geometry course but it will be done in greater depth and at a faster pace. Additional topics will be added to the course as well. Students will be required to justify mathematical statements, explain their mathematical reasoning, and apply these concepts to application problems. A graphing calculator will be required for the course; recommended model is the TI-84+.

**2023 Applied Geometry**

GRADE: 10                      40 WEEKS  
EXAM: LOCAL EXAM                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 1*

This course is intended for students who have completed Algebra 1 and who need an extended time to understand geometrical concepts. Applied Geometry will be a hands-on math course with many projects throughout the school year that are focused on understanding the concepts through engaging activities. The course is NOT designed to cover all the concepts in the Geometry Regents Exam. A graphing calculator is required; recommended model is the TI-84+.

**2072 Applied Algebra 2 & Trigonometry**

GRADE: 11, 12                      40 WEEKS  
EXAM: LOCAL                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 1 and Applied Geometry*

This course is intended for students who have completed the Algebra 1 course and the Applied Geometry course or for students who need an extended time to understand the advanced Algebra 2 mathematical concepts. Applied Algebra 2 & Trigonometry will be a hands-on math course with many projects throughout the school

year that are focused on understanding the concepts through engaging activities. The course is not designed to cover all the concepts in the Algebra 2 Regents Exam. A graphing calculator is required; recommended model is the TI-84+.

**2075 Algebra 2 (Common Core)**

GRADE: 10, 11                      40 WEEKS  
EXAM: REGENTS                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 1 (Final average and regents of 75) and Geometry (Three Quarter Average of 75)*

Algebra 2 is the third course in a three-year Regents sequence of courses aligned to the Common Core Standards. The course culminates with the Algebra 2 Regents Exam in June. Concepts taught in this course include functions, quadratic equations, complex numbers, rational expressions, trigonometry, exponents/logarithms, sequences/series, probability, and statistics. Students will be required to justify mathematical statements, explain their mathematical reasoning, and use these concepts in application problems. A graphing calculator is required; recommended model is the TI-84+.

**2076 Honors Algebra 2 (Common Core)**

GRADE: 10, 11                      40 WEEKS  
EXAM: REGENTS                      OFFERING: FULL YEAR  
READING LEVEL: HIGH

*Prerequisites: Honors Geometry and teacher rec.*

This course is intended for students who have accelerated their mathematics program by taking Honors Geometry in Gr. 10. Algebra 2 is the third course in a three-year Regents sequence of courses aligned to Common Core Standards. The course culminates with the Algebra 2 Regents in June. The course will include all the topics in the Regents Algebra 2 course but will be done in greater depth and at a faster pace. Students will derive concepts, do more complicated examples, and be required to produce rigorous solutions. Students will also be required to justify mathematical statements, explain mathematical reasoning and use these concepts in application problems. A graphing calculator is required for the course; the recommended model is the TI-84+.

**2077 Algebra 2 Two Year – Year 1 (Common Core)**

GRADE: 11                      40 WEEKS  
EXAM: LOCAL                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Geometry*

This course is intended for students who need an extended time to complete the Algebra 2 curriculum or for students who did not meet the prerequisite requirements for the Algebra 2 course. Students will cover the entire Regents curriculum over the two years and take the Regents in Algebra 2 at the end of their senior year which is required for the Advanced Regents Diploma. A graphing calculator will be required for the course; the recommended model is the TI-84+.





## 2078 Algebra 2 Two Year – Year 2 (Common Core)

GRADE: 12 40 WEEKS  
EXAM: REGENTS OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 2 & Two Year - Year 1*

This course is intended for students who have completed the Algebra 2 Two Year - Year 1 course. For the second year of this course sequence, students will finish learning the concepts in the Algebra 2 curriculum and will review for the Algebra 2 Common Core Regents in June. A graphing calculator is required; the recommended model is the TI-84+.

## 2080 Pre-Calculus (Common Core)

GRADE: 11, 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 2 - Three Quarter Average of 75*

Pre-Calculus is recommended for students planning to study engineering, science, computers, mathematics or business at the college level. This is the culminating course of the Common Core Standards. The course includes topics such as complex numbers, transformations, trigonometry, vectors and matrices, rational and exponential functions, and probability and statistics. Students will have the opportunity to earn Schenectady County Community College credit (at the cost of \$58/credit hour) if they successfully complete the course (Pre-Calculus with Analytic Geometry, MAT 167). A graphing calculator is required; the recommended model is the TI-84+.

## 2083 Math 12N

GRADE: 11, 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra 2*

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, statistics, matrices and transformations. A graphing calculator is required. The recommended model is the TI-84+.

## 2081 Pre-Calculus Honors(Common Core)

GRADE: 11, 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisites: Algebra 2 Honors and teacher rec.*

Pre-Calculus Honors is intended for students who have completed Algebra 2 Honors. This course will cover in greater depth the topics of Pre-Calculus (Common Core) as well as begin the study of Calculus. Additional topics will be studied, including sequences, series, limits, number theory, linear programming, spatial geometry, and linear algebra. Students will have the opportunity to earn Schenectady County Community College credit (at the cost of \$58/credit hour) if they successfully complete the course (Pre-Calculus with Analytic Geometry, MAT 167). A graphing calculator is required; the recommended model is the TI-84+.

## 2092 Applied Mathematics

GRADE: 11, 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra I*

Applied Mathematics is a course that focuses primarily on financial applications of mathematics. The course will include both mathematical skills and theory. Students will investigate the application of mathematics in real-world situations. A graphing calculator is required; recommended model is the TI-84+.

## 2100 Computer Programming – JAVA

GRADE: 9, 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE

*Prerequisites: Algebra I and Computer Science Principles*

This introductory computer programming course will introduce students to techniques of object-oriented programming using the JAVA language. Programs will require the use of numeric and string variables, conditionals, looping, class and method design, arrays, and array processing. Individual projects will be required.

## 2101 Mobile Application Design

GRADE: 9, 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: Computer Programming - JAVA or Computer Science Principles*

Did you ever want to learn how to create an App for your phone or tablet? In this one-semester computer science course, students will design and implement applications designed for Android devices. Students will identify task requirements, plan strategies, and use programming concepts to develop and test applications for a variety of purposes. Note: Students are not required to own an Android device or any mobile device.

## 2102 Computer Science Principles

GRADE: 9, 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: None*

Are you interested in computers and looking for a course to learn the basic concepts of how computer languages and programs work? In this semester course, students will learn how the computing world transforms problems into solutions. Students will learn how instructions are given to a computer and how the Internet works. Students will analyze problems, develop creative ideas, and collaborate in groups for solving real-world issues using computing. Students will develop a thorough grasp of the computing foundations and concepts relevant to college and career. This introductory course is designed for students who may have an interest in computer programming but want to investigate the field before taking additional programming classes.

**2103 Introduction to Game Design**

GRADE: 9, 10, 11, 12      20 WEEKS  
EXAM: LOCAL      OFFERING: SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: Computer Science Principles*

This course is a practical introduction to game design and game design concepts, emphasizing the basic tools of game design. Students will learn about how systems work and how they can be modified or changed. Students learn to think analytically and holistically, to experiment and test theories, and to consider other people as part of the systems they create and inhabit. Through the game design process, students cultivate skills involving: system-based thinking, creative problem solving, art and aesthetics, and writing and storytelling. This course uses “drag and drop” programming, no writing code is required.

**2106 Computer Programming – PYTHON**

GRADE: 10, 11, 12      40 WEEKS  
EXAM: SIENA COLLEGE      OFFERING: FULL YEAR

*Prerequisites - Geometry, Computer Science Principles*

This is a college-level course that focuses on the world of computing and computer science. It is a broad introduction to a variety of fundamental topics in computer science including robotics, the web, graphics, and sound. It builds upon skills that students learned in Introduction to Java and Computer Science Principles. This course is intended for students who have not taken AP Computer Science. Students will learn how to program and solve problems using a Python programming environment. Lab activities include multimedia applications in programming and robotics. Students will also acquire knowledge about computer systems, in general, both hardware and software. This course may be taken for college credit through a partnership with Siena College, fee applies.

**2142 Advanced Placement Computer Science**

GRADE: 10, 11, 12      READING LEVEL: AVERAGE  
EXAM: AP EXAM IN MAY      40 WEEKS  
FOR A FEE; LOCAL      OFFERING: FULL YEAR

*Prerequisites: Geometry and Computer Programming - JAVA; teacher rec.*

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 object-oriented 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 \$94.)

**2901 Advanced Placement Calculus (AB)**

GRADE: 11, 12      40 WEEKS  
EXAM: AP EXAM IN MAY FOR A FEE      OFFERING: FULL YEAR  
READING LEVEL: HIGH

*Prerequisites: Pre-Calculus*

This college-level course in calculus is designed to prepare students

for the Advanced Placement (AP) AB 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 \$94.) A graphing calculator is required; recommended model is the TI-84+.

**2911 Advanced Placement Calculus (BC)**

GRADE: 11, 12      READING LEVEL: HIGH  
EXAM: AP EXAM IN MAY FOR A FEE;      40 WEEKS  
LOCAL      OFFERING: FULL YEAR

*Prerequisites: Pre-Calculus Honors*

Calculus BC is intended for students who have completed the Pre-Calculus Honors course. This college-level course in calculus is designed to prepare students for the Advanced Placement BC 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 \$94.) A graphing calculator is required; recommended model is the TI-84+.

**2094 Statistics**

GRADE: 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: Algebra I*

This course is intended for students looking for a third or fourth credit in mathematics. Students should have at least completed the Algebra 1 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. The recommended model is the TI-84+.

**6200 Real Life Math**

GRADE: 11, 12      READING LEVEL: MIXED  
EXAM: LOCAL      OFFERING: FULL YEAR (1 CREDIT)

*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.



# Miscellaneous

## 0946 Dance Choreography

GRADE: 9, 10, 11, 12      20 WEEKS  
 EXAM: VIDEOTAPED WORK      OFFERING: ONE SEMESTER  
 READING LEVEL: N/A

*Prerequisites: None*

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  
 READING LEVEL: N/A

*Prerequisites: None*

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.

## 8683 Focus Family

GRADE: 10, 11, 12      40 WEEKS  
 EXAM: NONE      OFFERING: FULL YEAR  
 READING LEVEL: N/A

*Prerequisites: Enrolled in Focus Program*

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      READING LEVEL: N/A  
 EXAM: NONE      OFFERING: FULL YEAR

*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 Health in the other half of their music block.

### 5532 Concert Choir

GRADE: 10, 11, 12      40 WEEKS / 1/2 BLOCK  
EXAM: PROFICIENCY      OFFERING: FULL YEAR  
READING LEVEL: N/A

*Prerequisites: Audition*

This select mixed choir performs a variety of musical selections in many styles from the standard choral repertoire including NYSSMA ensemble literature and works by contemporary composers. Auditions for this ensemble take place in January but may be arranged by appointment if a student is new to the choral program. 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. Students participating in Concert Choir also get a chance to sing in Treble Choir/Changed Voices Choir, respectively, as part of the curriculum. This course meets the Art/Music requirement for graduation.

### 5512 Mixed Choir

GRADE: 9, 10, 11, 12      40 WEEKS / 1/2 BLOCK  
EXAM: PROFICIENCY      OFFERING: FULL YEAR  
READING LEVEL: N/A

*Prerequisites: None*

This is a mixed voice choir where students develop their skills as independent singers and work on vocal skills in small group lessons, which are required. Students also perform jointly with the Concert Choir. Students may take choir and band/orchestra in the same block. Students participating in Mixed Choir also get a chance to sing in a Treble Choir/ Changed Voices Choir, respectively, as part of the curriculum. This course meets the Arts requirement for graduation.

### 5502 Symphony Orchestra

GRADE: 10, 11, 12      40 WEEKS / 1/2 BLOCK  
EXAM: PROFICIENCY      OFFERING: FULL YEAR  
READING LEVEL: NYSSMA  
LEVEL IV-VI

*Prerequisites: Audition*

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. 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      OFFERING: FULL YEAR  
EQUIVALENT

*Prerequisites: Previous string experience or conductor's permission*

Open to all students who have experience on an orchestral string instrument. Students who wish to start a string instrument for the first time will be enrolled in lessons only until they have reached a skill level adequate to participate in this ensemble. 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. Students may take orchestra and choir in the same block. This course meets the Arts 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*

This ensemble is composed of students who have previous band experience. Students who wish to start a band instrument for the first time will be enrolled in lessons only until they have reached a skill level adequate to participate in this ensemble. 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. Students may take band and choir in the same block. This course can be used to meet the Arts requirement for graduation.

### 5552 Wind Ensemble

GRADE: 10, 11, 12      40 WEEKS / 1/2 BLOCK  
EXAM: PROFICIENCY      OFFERING: FULL YEAR  
READING LEVEL: NYSSMA  
LEVEL V OR VI

*Prerequisites: Audition*

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 five 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 they 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. Students may take Wind Ensemble and choir in the same block. This course can be used to meet the Fine Arts requirement for graduation.

### 5602 Music Theory and Composition 1

GRADE: 10, 11, 12 OFFERING: FULL YEAR  
40 WEEKS (1 CREDIT)

*Prerequisites: In-school music programs or one year of private music instruction*

Music Theory is open to all students of all musical backgrounds, although 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.

### 5611 (AP) Advanced Placement Music Theory

GRADE: 11, 12 OFFERING: FULL YEAR  
40 WEEKS (1 CREDIT)

*Prerequisites: Advanced Aural Skills training/ or MAP test*

AP Music Theory is the next step for performing music students (both traditional and non-traditional) with a passion for music looking for depth in their high school musical experience. It is an advanced composition-based curriculum leading to the AP exam in May. (Fee is approximately \$94). 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 should be taken by any student considering a major or minor in any field of music or music production, but is open to any student looking for a challenging and immersive music experience.

### 5612 Music Technology I

GRADE: 9, 10, 11, 12 OFFERING: FULL YEAR  
40 WEEKS (1 CREDIT)

*Prerequisites: None*

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 OFFERING: FULL YEAR  
40 WEEKS

*Prerequisites: None*

Music in Our Lives is an elective designed for students to study different aspects of musical arts. Curriculum units include keyboard and guitar instruction, composition and music technology. 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 OFFERING: FULL YEAR  
40 WEEKS (1 CREDIT)

*Prerequisites: Music Technology 1 or teacher permission*

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

### 5704 Applied Music (Independent Study)

GRADE: 9, 10, 11, 12 40 WEEKS / ONCE A WEEK  
EXAM: SUMMARY (1 CREDIT)  
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. Credit requires 5 hours of weekly practice and quarterly reports as well as a year-end evaluation.

### 5620 Beginning Guitar/Ukulele Lab

GRADE: 9, 10, 11, 12 OFFERING: ONE SEMESTER

*Prerequisites: None*

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

### 5622 Piano and Keyboard Lab

GRADE: 9, 10, 11, 12 OFFERING: ONE SEMESTER

*Prerequisites: None*

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



# Physical Education

## 8003 Physical Education 9-10

### 8013 Physical Education 11-12

EXAM: N/A

OFFERING: FULL YEAR

40 WEEKS

*Prerequisite: None*

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.

### 8044 Focus Physical Education 11-12

GRADE: 10, 11, 12

40 WEEKS/EVERY OTHER DAY/ADV.

EXAM: N/A

OFFERING: FULL YEAR

READING LEVEL: N/A

*Prerequisite: Enrollment in Focus Program*

Students are engaged in a variety of 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.

## 8070 Introduction to Sports Medicine

GRADE: 11, 12

READING LEVEL: AVERAGE

EXAM: LOCAL

OFFERING: 20 WEEKS

*Prerequisites: Successfully completed Health, Biology and 2 years of Physical Education*

The course in Sports Medicine is a 1/2 unit class 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 athlete's body.

## 8014 Unified Physical Education (Gr. 11 & 12)

GRADE: 11, 12

CLASS CAP: 16

EXAM: NONE

OFFERING: FULL YEAR (40 WEEKS)

*Prerequisite: 9-10 Physical Education*

Unified Physical Education is an inclusive physical education course that unites student "athletes" (individuals with intellectual disabilities) and "partners" (individuals without intellectual disabilities) to explore a wide variety of activities. Unified Physical Education is a unique opportunity for students of varying ability levels to learn together on equal terms through ongoing fitness, sports, leadership and wellness activities. Students will be working with many students throughout the year by being a peer mentor/teacher. Students will earn their regular physical education credit in this course.

# Health

## 7802 Health Education

GRADE: 10-12

20 WEEKS

EXAM: LOCAL

OFFERING: BOTH SEMESTERS

READING LEVEL: MIXED

*Prerequisite: None*

Health is a 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,

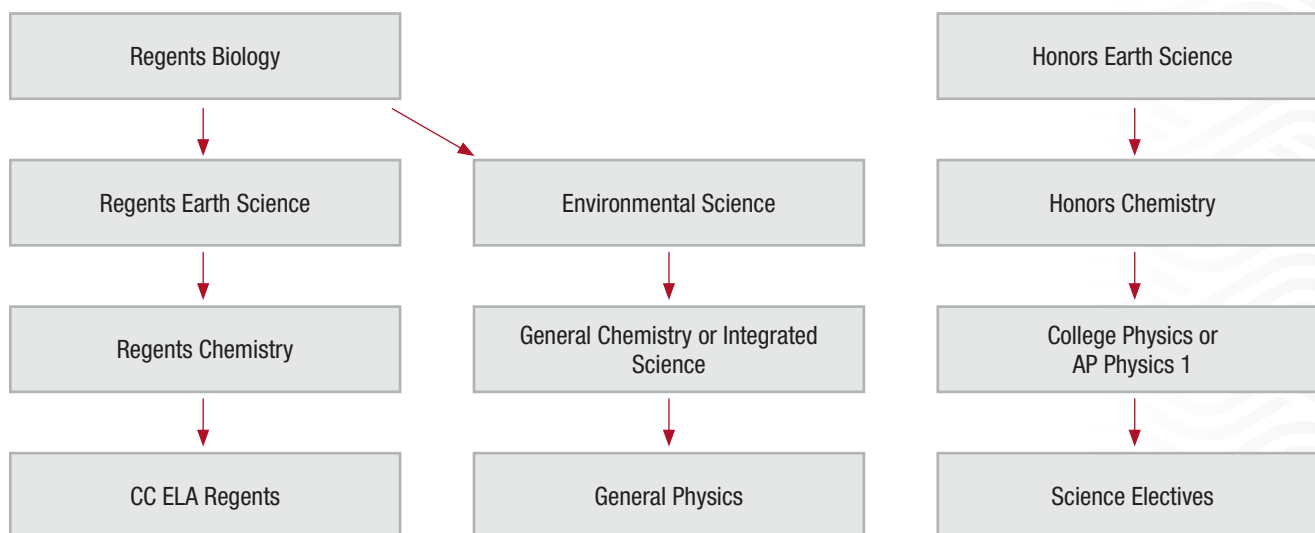
appreciations); and skills (communications advocacy, decision making, planning and goal setting, and self management) in the areas of:

- Foundations of health
- Coping strategies
- Disease and disability
- Respect and nonviolence
- Teen sexuality, which includes HIV/AIDS
- education and parenting
- Drugs, medicine and alternative therapies
- Nutrition
- Mental Health



# Science

## Possible Sequences of Courses



## Science Electives

SUPA Biology	AP Chemistry	SUPA Forensics	Physiology
Space Exploration	AP Physics 2	Health Sciences	Nursing (Semester)
Pharmaceutical Science (Semester)	Physical Therapy (Semester)	Bioethics	Biotechnology (Semester)
Meteorology (Semester)	Natural Disasters (Semester)	Nanotechnology 1 (Semester)	Nanotechnology 2 (Semester)
Clean Energy Technology (Semester)			

### 3012 Regents Biology

GRADE: 9  
EXAM: REGENTS  
READING LEVEL: AVERAGE  
40 WEEKS  
OFFERING: FULL YEAR  
MEETS: ¾ DAYS  
*Prerequisite: Grade 8 science*

This course is a detailed study of many aspects of modern biology. Topics include cell biology, genetics, ecology, evolution, and human biology. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

### 3000 Honors Earth Science

GRADE: 9, 10  
EXAM: REGENTS  
READING LEVEL: HIGH  
40 WEEKS  
OFFERING: FULL YEAR  
MEETS: ¾ DAYS  
*Prerequisites: Regents Biology and teacher recommendation*

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 complete a number of research projects throughout the



year, many of which will require data collection outside of school. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

**3002 Regents Earth Science**

GRADE: 9, 10	40 WEEKS
EXAM: REGENTS	OFFERING: FULL YEAR
READING LEVEL: AVERAGE	MEETS ¾ DAYS

*Prerequisite: Regents Biology*

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. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

**3063 Environmental Earth Science**

GRADE: 10, 11	40 WEEKS
EXAM: LOCAL	OFFERING: FULL YEAR
READING LEVEL: AVERAGE	MEETS: 2/4 DAYS

*Prerequisites: Regents Biology*

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. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

**3032 Physiology**

GRADE: 11, 12	40 WEEKS
EXAM: LOCAL	OFFERING: FULL YEAR
READING LEVEL: AVERAGE	MEETS: 2/4 DAYS

*Prerequisite: Biology and Regents Chemistry*

Anatomy and Physiology is intended to provide a firm comprehension of the human body to students who aspire to a career in a health profession such as medicine, nursing, and physical therapy. The course explores interrelationships between different organ systems and their homeostatic functions. Students pay special attention to cells, tissues, and biochemistry as they delve through the structure and function of each body system. Also, they perform a series of hands-on laboratory experiments including the dissections of a cat, rat, and the major organs of a sheep. As they develop an understanding of the intricacies of the human body, students will research and present the effects of a specific disease on the body's organs and organ systems.

**3102 Regents Chemistry**

GRADE: 10, 11, 12	40 WEEKS
EXAM: REGENTS	OFFERING: FULL YEAR
READING LEVEL: AVERAGE/HIGH	MEETS: ¾ DAYS

*Prerequisite: Regents Biology and student is taking Algebra 2 concurrently*

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 to take the Regents exam.

**3103 General Chemistry**

GRADE: 11, 12	40 WEEKS
EXAM: LOCAL	OFFERING: FULL YEAR
READING LEVEL: AVERAGE	MEETS: ¾ DAYS

*Prerequisite: 1 year science*

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 AND LOCAL	OFFERING: FULL YEAR
READING LEVEL: HIGH	MEETS: ¾ DAYS

*Prerequisite: Honors Earth Science and/or teacher recommendation*

Honors Chemistry will cover the same topics as Regents Chemistry, but in greater depth and with more rigor. This course offers students the opportunity to develop problem-solving and critical thinking skills necessary for success at the college level. Laboratory activities will require the application of higher-level, argument-driven inquiry skills. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

**3083 Integrated Science**

GRADE: 11, 12	OFFERING: FULL YEAR
EXAM: LOCAL	MEETS: 2/4 DAYS
40 WEEKS	READING LEVEL: AVERAGE/LOW

*Prerequisite: Regents Biology, Environmental Earth Science*

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, food science, humans and disease, and gardening. There will be considerable laboratory work as part of this course.

**3203 General Physics**

GRADE: 11, 12	40 WEEKS
EXAM: LOCAL	OFFERING: FULL YEAR
READING LEVEL: AVERAGE	MEETS: 2/4 DAYS

*Prerequisite: Understanding of Algebra, 1 year science and teacher recommendation or 2 years science*

Provides a background in physics suitable for a two-year college program needing a basic understanding of physics.

**3202 Regents Physics**

GRADE: 11, 12	40 WEEKS
EXAM: REGENTS	OFFERING: FULL YEAR
READING LEVEL: AVERAGE/HIGH	MEETS: ¾ DAYS

*Prerequisite: Passed Regents Chemistry; passed Algebra 2*

Regents Physics is a college preparatory course for students planning to pursue in college 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. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.





### 3205 College Physics

GRADE: 11, 12	40 WEEKS
EXAM: REGENTS AND SIENA	OFFERING: FULL YEAR
COLLEGE FINAL EXAMS	MEETS: 3/4 DAYS
READING LEVEL: HIGH	

*Prerequisite: Honors Chemistry and teacher recommendation*

College Physics is an algebra-based, college-level physics course that is affiliated with the curriculum of two undergraduate-level courses offered at Siena College (General Physics 110 and General Physics 120). This is a survey course designed for Biology, Pre-Med, Environmental Science, and other similar college majors. Students will study topics such as mechanics, dynamics, thermodynamics, waves, electrostatics, optics, and nuclear physics. At the end of each semester, students will take a Siena final exam which will count towards 20% of their college transcript grade and 10% each towards their GHS course grade for the year. Each semester the students will have the ability to earn (4) Siena College credits at a cost of approximately \$250. The NYS Physics Regents exam is optional if it is desired to be on a student's transcript and it will not count towards the student's overall grade in the course. A minimum of 20 hours of laboratory work with satisfactory reports is required to take the Regents exam.

### 3021 Syracuse University Project Advance Biology

GRADE: 12	40 WEEKS
EXAM: SYRACUSE UNIVERSITY	OFFERING: FULL YEAR
EXAMS	MEETS: ¾ DAYS
READING LEVEL: HIGH	

*Prerequisite: Regents Biology and Regents Chemistry*

SUPA Biology is the full year (two-semester) freshman biology course offered at Syracuse University (Bio 121, 123, 124 - General Biology I and II and Biology Lab). Students may earn eight credits by registering with the university and paying tuition at the rate of \$115 per credit. This course is a survey of biological concepts ranging from the molecular level to global ecology. First semester topics include the nature of science, life chemistry, cell structure and function, photosynthesis and respiration, genetics, and evolution. Second-semester topics include: biodiversity, plant structure and function, human and comparative animal anatomy and function, ecology and evolution. Extensive lab work is required, including dissections. The course includes inquiry-based exploration and practical application of concepts. It is highly recommended that students in this course enroll with the university. Students will have the option to take the AP Biology exam.

### 3121 Advanced Placement Chemistry (SUPA Chemistry)

GRADE: 11, 12	40 WEEKS
EXAM: AP EXAM/SU EXAM	MEETS: ¾ DAYS
READING LEVEL: HIGH	

*Prerequisite: Regents Chemistry, Algebra 2 and teacher recommendation*

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. AP Chemistry is now affiliated with Syracuse University and students may earn (8) college credits through the university by paying tuition at currently \$115/

credit hour. (CHE 106-107, CHE 116-117). Students in this course are highly recommended to register with the university. Students must take the AP exam as part of this course. (Approximate test fee \$94).

### 3200 (AP) Advanced Placement Physics 1

GRADE: 11, 12	40 WEEKS
EXAM: AP EXAM W/FEE	MEETS: ¾ DAYS
READING LEVEL: HIGH	

*Prerequisite: Honors Chemistry (final average of 85); Algebra II (final average of 85)*

AP Physics 1 is an algebra-based physics course equivalent to a first-semester college course. The course is for students who are intending to pursue degrees in Engineering, Physics, Mathematics, or Chemistry. The course will focus on Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves, sound, and an introduction to electrical circuits. Throughout the school year, students will focus on developing deep understanding of the concepts through hands-on explorations of physics content and inquiry labs. Students must take the AP exam as part of this course. (Approximate test fee \$94). The course will culminate with students taking the NYS Physics Regents exam. A minimum of 20 hours of laboratory work, with satisfactory reports is required.

### 3204 (AP) Advanced Placement Physics 2

GRADE: 12	40 WEEKS
EXAM: AP EXAM W/FEE	OFFERING: FULL YEAR
READING LEVEL: HIGH	

*Prerequisite: AP Physics and teacher recommendation*

AP Physics 2 is an algebra-based physics course equivalent to a second-semester college course. The course will continue the study that began in Physics 1 but will focus on fluid mechanics, thermodynamics, electricity and magnetism, optics, atomic physics, and nuclear physics. Throughout the school year, students will focus on developing deep understanding of the concepts through hands-on explorations of physics content and inquiry labs. Students must take the AP exam as part of this course. (Approximate test fee \$94).

### 3211 Syracuse University Project Advance Forensics

GRADE: 12	40 WEEKS
EXAM: SYRACUSE UNIVERSITY	OFFERING: FULL YEAR
EXAM	MEETS: 2/4 DAYS
READING LEVEL: HIGH	

*Prerequisite: Chemistry, General Chemistry or Physiology; teacher recommendation*

SUPA Forensics (Forensic Science, Chem 113) is the freshman level Forensic Science course offered at Syracuse University. Students may earn four credits by registering with the university and paying tuition at the rate of \$115 per credit. This course provides an intro to understanding the science behind crime detection. Topics include crime scene investigation, glass, soil, hair, fibers, paint, serology, DNA, drugs and toxicology, fingerprinting, ballistics, arson and forgery. The lab exercises include techniques commonly employed in forensic investigations. This course will be especially advantageous for those interested in a career in forensic science, law enforcement or criminal justice. It is highly recommended that students enroll with the university

**3212 Space Exploration**

GRADE: 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: HIGH MEETS: 2/4 DAYS

*Prerequisite: Regents or General Chemistry*

Space Exploration is a course focused on exploring the components of our Universe. Students will start the course by learning about our Solar System (the planets, moons of planets, and the Sun) and then will move to larger areas in space such as the exploration of the Milky Way Galaxy and other surrounding galaxies. Specific topics covered include electromagnetic radiation, properties of the planets in our Solar System, properties of the Sun, stellar evolution, plotting constellations, black holes and exploring other galaxies.

**3076 Biotechnology**

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology and taking Regents/General Chemistry concurrently*

What are GMOs and how do we genetically modify something? What are stem cells and why is there such a controversy surrounding them? This is biotechnology, and this industry is one of the largest growing fields in science. Biotechnology is the integration of biology, technology and engineering. Students will explore how drugs are developed, genetic engineering in food and crops, and medical applications. The course will be hands-on and will attempt to provide students with skills used in the biotech industry.

**3077 Clean Energy Technologies**

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology*

In today's ever-changing world, creating an environment that is sustainable for us is becoming increasingly important. Clean energy systems can help with this need. Wind turbines, solar cells, and geothermal heating/cooling systems are all examples of clean energy technology - all of which are changing the world and providing employment opportunities in the area. In this course, students will be exposed to what sustainability means, with regard to energy usage, and will explore the concept of energy and energy efficiency by learning about the many ways energy can be harvested. Topics include wind, solar, hydro, and nuclear energy. Each form of energy will be analyzed with regard to its efficiency, environmental impact, and economic cost, as well as the feasibility of each particular method, both locally and globally. This course utilizes a hands-on, project-based approach.

**3078 Nursing**

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology*

In this course, students will learn about the profession of nursing and the skills needed in this medical field. Students will explore how their understanding of human biology is applied to health care

in terms of diagnosis of ailments, treatment of symptoms, and the usage of medical technology. Hands-on skills will allow students to learn about the daily routines a nurse might encounter. Course work includes the history of nursing, researching advanced degrees, nursing and medical ethics. Students will use their knowledge of biology and human body work through case studies in order to help develop thinking skills needed for nursing school.

**3079 Physical Therapy**

GRADE: 10, 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology*

Have you ever thought about becoming a physical therapist and wondered about the type of work involved? In this semester-long class, students will learn about the profession of physical therapy and the different applications in the medical field from sports medicine, to rehabilitation from injury, to geriatric services. Students will apply what they have learned from Regents Biology about the human body to real-life case studies and the therapies involved. Students will explore different techniques for physical therapy and how the practices affect the health of the patient.

**3214 Meteorology**

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology; Regents Earth Science*

"How does the weatherman determine it is going to rain in the afternoon two days from now?" "Why do hurricanes develop in late August?" In this course, students will explore how the atmosphere works in terms of weather and climate. This course will use basic chemistry and physical science to explain the principles and phenomena of the atmosphere. Students will study the science behind climate, day-to-day weather, issues in air pollution, as well as broadcast meteorology.

**3215 Pharmaceutical Science**

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: SEMESTER  
READING LEVEL: AVERAGE MEETS: 2/4 DAYS

*Prerequisite: Regents Biology; Regents/General Chemistry*

Pharmaceutical Science is a semester course, where students will explore the growing field of pharmaceuticals and get a dose of the essential skills necessary for this growing career in the healthcare field. Students will investigate the fundamentals of pharmacy practice, drugs and their therapeutic effects on body systems, and pharmaceutical headlines. This hands-on and minds-on course will give students the opportunity to perform pharmaceutical experiments and calculations that will replicate on-the-job scenarios and data analysis. Pharmaceutical Science is now affiliated with Albany College of Pharmacy and Health Sciences and students may earn a total of three (3) credits of ACPHS elective credit by paying tuition at the current rate of \$100 per credit hour or a total of \$300 (PSC 107 Introduction to Pharmaceutical Sciences). Students will gain relevant knowledge, skills, and confidence necessary to provide safe and effective care in their professional careers as well as in their own personal lives.



### 3216 Nanotechnology 1: Intro to Material Science

GRADE: 11, 12                      20 WEEKS  
EXAM: LOCAL                      OFFERING: SEMESTER  
READING LEVEL: AVERAGE      MEETS: 2/4 DAYS

*Prerequisite: Regents Chemistry; completed Regents Physics or enrolled in Physics*

This course is a general introduction to the study of materials: metals, ceramics, polymers, and electronic materials. Students will learn about the basic molecular structures of materials. Students will investigate the relationship between bonding, structure (crystals and microstructure) and properties of these materials. The course will examine some elementary principles of thermodynamics as they apply to materials, mechanical properties of materials, and the electronic, optical, and magnetic properties of materials. Students will have the ability to earn Schenectady County Community College credit (at the cost of \$58/credit hour) through this course. (NMT 150-3 credits)

### 3217 Nanotechnology 2: Intro to Nanoscale Materials

GRADE: 11, 12                      20 WEEKS  
EXAM: LOCAL                      OFFERING: SEMESTER  
READING LEVEL: AVERAGE      MEETS: 2/4 DAYS

*Prerequisite: Nanotechnology 1*

This course introduces students to the field of nanoscale materials. Nanoscale materials have chemical and physical properties that are significantly different from those of bulk materials. This course examines the underlying principles of size-dependent properties and the processing and fabrication of these materials at the molecular level. This course will cover the synthesis and assembly of nanoscale materials based on top-down and bottom-up approaches. The application of nanodevices made from nanoscale materials will also be discussed. Students will have the ability to earn Schenectady County Community College credit (at the cost of \$58/credit hour) through this course. (NMT 152-3 credits)

### 3080 Health Sciences

GRADE: 11, 12                      40 WEEKS  
EXAM: LOCAL                      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE      MEETS: 2/4 DAYS

*Prerequisite: Regents Biology*

In this full-year course, students will focus on the application of science in the medical field. Students will begin with a study of the organ systems. This course will then shift to a focus on disease and illness where students will learn about symptomatology, diagnosis, and treatment. Students will do case studies where they will use the information to make a medical diagnosis. Students will then transition to a study of nutrition and how foods interact with the body. The course will end with a study of medical careers and a research project focused on the topics of the year.

### 3218 Natural Disasters

GRADE: 11, 12                      20 WEEKS  
EXAM: LOCAL                      OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE      MEETS: 2/4 DAYS

*Prerequisite: Biology and Earth Science*

In this project-based course, study will focus on natural disasters; earthquakes, volcanic eruptions, tropical storms and blizzards. Students will explore the scientific cause, as well as the historical

effects these events have had on human civilization, as well as investigate preparations that can be made to protect life and property in future events. Concepts will touch on Earth Science, Biology, History and Ethics.

### 3075 Bioethics

GRADE: 11, 12                      20 WEEKS  
EXAM: LOCAL                      OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE      MEETS: 2/4 DAYS

*Prerequisite: Regents Biology*

This course will explore ethical issues and decision-making processes involved in biomedical science, as viewed from legal, medical, social, and philosophical perspectives. Students will learn to use ethical concepts to analyze and evaluate real-life cases, understand, articulate and defend philosophically and ethically sound positions, and engage critically and respectfully with opposing views. Students will utilize primary texts including philosophical essays, court decisions and opinion pieces. Examples of topics that will be discussed are: questions pertaining to the beginning and end of life, biotechnology and genetic experimentation, justice in health-care, responsibilities of physicians, environmental health, and other pertinent subjects. Real and hypothetical cases will be discussed.

### 3070 Science Research Seminar

GRADE: 10, 11, 12                      OFFERING: FULL YEAR  
EXAM: LOCAL                      MEETS: 2/4 DAYS  
READING LEVEL: AVERAGE

*Prerequisite: None*

This Science Research Seminar is a three-year sequence of courses (typically begun in the sophomore year) in which students choose a topic and carry out an original research project on that topic. The student does ALL of what professional researchers do, from journal readings to finding a mentor, planning a project, and carrying it out to an appropriate conclusion. As the work progresses, the student writes research papers, creates posters, and presents research findings at available competitions and symposia as determined appropriate by the instructor. During the student's second and third years in the program, they may elect to take the course for college credit for a total of up to twelve credits at the State University of New York. All students are welcome in the program regardless of past academic history. The only prerequisite is that the student be a self-motivated, hard worker.





# Social Studies

The Social Studies Department strives to ensure that all students are prepared to become active, productive, informed, responsible, and efficacious citizens. Guilderland students are required to take four Social Studies credits that reflect Global History and Geography, U.S. History and Government, Economics, and Public Policy. Not only will students engage with important historical content and related-concepts, but students will also leverage their literacy skills in the areas of close reading, argument and explanatory writing, and using textual evidence.

In addition to learning core discipline-specific lenses, students will also focus on building skills to effectively evaluate primary and secondary sources to better understand the historical past. Additionally, students will also learn how to develop inquiry questions, conduct research, and communicate their findings as active, informed citizens.

Grade 9	Grade 10	Grade 11	Grade 12	
Global History 9R	Global History 10R	US History 11R	Public Policy 12R	Economics 12R
Global History 9A	Global History 10A	US History 11A	College US Government & Politics (SCCC)	SUPA Economics
Global History 9H	Global History 10H			
	AP European History	AP US History	AP US Government & Politics	
	Global History Regents	US History Regents	Students are required to take Economics and Public Policy. Social Studies electives can be taken in Grades 11 and 12.	

## 1002 Global History & Geography 9 – Regents

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisite: Social Studies 8*

The Global history program is a comprehensive study of global societies through the use of the social sciences of anthropology, archeology, economics, geography, history, law, philosophy, political science, and sociology. The course of study will include the following topics and timeline: (1) The First Civilizations [10,000 BCE-630 CE]; (2) Classical Societies [600 BCE – 900 CE]; (3) An Age of Expanding Connections [500-1500]; and (4) Global Interactions [1400-1750]. This course also emphasizes the application of Social Studies-specific skills such as document analysis, developing argument-based claims supported by document and historical evidence, and discipline-specific inquiry.

## 1001 Global History & Geography 9 – Honors

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: HIGH  
*Prerequisite: Social Studies 8, teacher recommendation and skills-based performance test*

Students will complete the 9th grade Regents Global curriculum. In addition, this course emphasizes a progressive increase in text-based primary source documents; rigorous evidence-based historical research, interpretation and analysis; advanced application of academic discipline-specific Social Studies vocabulary, concepts, and skills; and research-based historical writing to explore and evaluate enduring issues. This course requires more frequent and longer reading assignments of primary and secondary sources.





### 1012 Global History & Geography/English 9 – Aligned

GRADE: 9 40 WEEKS  
 EXAM: LOCAL OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisite: Social Studies 8*

Grade 9 Global History and English classes are aligned so that students are engaged in rigorous, project-based instruction with an opportunity for collaborative learning experiences. This course may be taken for Honors credit if the student demonstrates mastery of designated performance standards.

### 1022 Global History & Geography 10 – Regents

GRADE: 10 40 WEEKS  
 EXAM: REGENTS OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisite: Global History 9*

This program is a continuation of Global History 9 and will culminate in a Regents exam. The course of study will include the following topics and timeline: (1) The World in 1750; (2) An Age of Revolutions, Industrialization, and Empires [1750-1914]; (3) Crisis and Achievement in the 20th Century [1914–Present]; and (4) Contemporary Issues. This course also emphasizes the application of Social Studies-specific skills such as document analysis, developing argument-based claims supported by document and historical evidence, and discipline-specific inquiry. Students taking this course will be prepared to take the required NYS Global History and Geography Regents Examination in June.

### 1021 Global History & Geography 10 – Honors

GRADE: 10 40 WEEKS  
 EXAM: REGENTS OFFERING: FULL YEAR  
 READING LEVEL: HIGH  
*Prerequisite: Global History 9*

Students will complete the 10th grade Regents Global curriculum. In addition, this course emphasizes a progressive increase in text-based primary source documents; rigorous evidence-based historical research, interpretation and analysis; advanced application of academic discipline-specific Social Studies vocabulary, concepts, and skills; and research-based historical writing to explore and evaluate enduring issues. This course requires more frequent and longer reading assignments of primary and secondary sources. Students taking this course will be prepared to take the required NYS Global History and Geography Regents Examination in June.

### 1034 Global History & Geography/English 10 – Aligned

GRADE: 10 40 WEEKS  
 EXAM: REGENTS OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisite: Global History 9*

Grade 10 Global History and English classes are aligned so that students are engaged in rigorous, project-based instruction with an opportunity for collaborative learning experiences. Students taking this course will be prepared to take the required NYS Global History and Geography Regents Examination in June.

### 1901 Advanced Placement European History

GRADE: 10 40 WEEKS  
 EXAM: AP EXAM; REGENTS OFFERING: FULL YEAR  
 READING LEVEL: HIGH EXAM COST: APPROXIMATELY \$94  
*Prerequisite: Global History 9R, 9A or 9H and teacher recommendation*

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History, students investigate significant events, individuals, developments and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. All students taking this course will be required to take both the AP European History Examination in May and the Global History and Geography Regents Examination in June.

### 1042 United States History & Govt. – Regents

GRADE: 11 40 WEEKS  
 EXAM: REGENTS OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisite: Global History 10*

This course provides an in-depth study of American History from 1600 to the present. The Presidency, Congress and Supreme Court are examined, as well as the topics of immigration, foreign policy, economics and American culture. This course also emphasizes the application of Social Studies-specific skills such as document analysis, developing argument-based claims supported by document and historical evidence, and discipline-specific inquiry. This course will prepare students to take the United States History and Government Regents Examination in June.

### 1041 United States History & Govt. – Honors Grade: 11

GRADE: 11 40 WEEKS  
 EXAM: REGENTS OFFERING: FULL YEAR  
 READING LEVEL: HIGH  
*Prerequisites: Global History 10R, 10A, or 10H and teacher rec.*

Students will complete the 11th grade Regents U.S. History curriculum. In addition, this course emphasizes a progressive increase in text-based primary source documents; rigorous evidence-based historical research, interpretation and analysis; advanced application of academic discipline-specific Social Studies vocabulary, concepts, and skills; and research-based historical writing to explore and evaluate enduring issues. This course requires more frequent and longer reading assignments of primary and secondary sources. This course will prepare students to take the United States History and Government Regents Examination in June.

**1060 United States History & Government / English 11 – Aligned**

GRADE: 11	40 WEEKS
EXAM: REGENTS	OFFERING: FULL YEAR
READING LEVEL: AVERAGE/HIGH	

*Prerequisite: Global History 10 A, R, H*

Grade 11 U.S. History and English classes are aligned so that students are engaged in rigorous, project-based instruction with opportunity for collaborative learning experiences, which center on the cooperative discovery of the significant history of the peoples of America (primarily the United States) through the reading of diverse historical literature as well as a wide variety of nonfiction material. There is a great emphasis on the use of learning journals, reading independently, and preparing classroom presentations and projects, both individually and in groups. Completion of a summer project is required for this course. This course will prepare students to take the United States History and Government Regents Examination in June.

**1101 Black History in the United States (SCCC)**

GRADE: 11, 12	20 WEEKS
EXAM: NONE	OFFERING: ONE SEMESTER
READING LEVEL: AVERAGE/HIGH	
TUITION COST: \$58/CREDIT HOUR (2018-19 TUITION RATE)	

*Prerequisites: Global 10R, Global 10A, Global 10H, AP Euro*

This course focuses on the history and experience of Black Americans in the United States, which spans the early precolonial era to modern America. For example, this course will cover individual and group experiences; agency; social, political, and economic institutions; discrimination and efforts to secure equal justice under the law and contemporary issues in America among other focal points. This course is based on HIS 130: Introduction to Black History in the United States at SCCC. Students may earn three college credit hours upon successful completion of this class

**1200 The History of American Freedom: African American Civil Rights**

GRADE: 11, 12	20 WEEKS
EXAM: NONE	OFFERING: ONE SEMESTER
READING LEVEL: HIGH	

*Prerequisites: Black History in the United States (SCCC) is strongly suggested*

This course primarily focuses on the historical (and contemporary) experiences of a specific group in American history through the lens of liberty and freedom. In addition to examining this perspective and subject, the course also provides an introduction to basic historiography (both as a subject and as a methodological skill) and the opportunity for students to conduct research and communicate their findings. In particular, this course will focus on the historical experience of African American Civil Rights in the United States. For example, this course will explore primary and secondary resources, allowing students to apply the lens of Eric Foner's American Freedom to critically understand the evolution of African American Civil Rights from the past to the present.

**1911 Advanced Placement U.S. History**

GRADE: 11	40 WEEKS
EXAM: AP EXAM; REGENTS	OFFERING: FULL YEAR
READING LEVEL: HIGH	EXAM COST: APPROXIMATELY \$94

*Prerequisite: Global History 10 A, R, H or AP Euro and teacher recommendation*

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. All students taking this course will be required to take both the AP U.S. History Examination in May and the United States History and Government Regents Examination in June.

**1062 Economics – Regents**

GRADE: 12	20 WEEKS
EXAM: LOCAL	OFFERING: BOTH SEMESTERS
READING LEVEL: AVERAGE	

*Prerequisites: US 11*

This course includes an overview of economic principles, the role of each factor of production (land, labor, capital, and entrepreneurship), the role of the consumer, government involvement in economic planning, the study of economic growth, the analysis of the factors of growth, money, banking, International Trade/Competition Investment and current problems. Reading, writing and research activities are stressed. Macro and microeconomics are taught in this course.

**1721 Syracuse University Project Advance Economics**

GRADE: 12	20 WEEKS
EXAM: LOCAL	OFFERING: BOTH SEMESTERS
READING LEVEL: HIGH	TUITION COST: \$115 PER CREDIT HOUR

*Prerequisites: US 11R, 11A, 11H, or AP US and teacher rec.*

This course is an intro to Micro and Macro Economics and an examination of Western economic thought. More specifically, the course starts with Microeconomics and a one-person society before examining how people make choices, especially when other individuals are introduced and resources become scarce. The course continues into Macro Economics and leads students to today's complex, industrialized society. Students will examine the role government plays in creating and solving global economic challenges as well as learning how to become a more engaged economic citizen by gaining a better understanding of fiscal policy, financial markets, and the role of the consumer. This course is



based on ECN 203: Economic Ideas & Issues at Syracuse University. Students may earn three college credit hours upon successful completion of class.

### 1802 Public Policy – Regents

GRADE: 12 20 WEEKS  
EXAM: LOCAL OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE  
*Prerequisites: US 11*

This course centers on government structure, the policy process, and societal issues. Students will explore other public policy issues through individual and group projects. This course also emphasizes the application of Social Studies-specific skills such as document analysis, developing argument-based claims supported by document and historical evidence and discipline-specific inquiry.

### 1811 Public Policy – Honors

GRADE: 12 20 WEEKS  
EXAM: N/A OFFERING: BOTH SEMESTERS  
READING LEVEL: HIGH  
*Prerequisites: US 11R, 11A, 11H, or AP US and teacher rec.*

Students will complete the 12th grade Public Policy curriculum. In addition, this course emphasizes a progressive increase in text-based primary source documents; rigorous evidence-based research, interpretation and analysis; advanced application of academic discipline-specific Social Studies vocabulary, concepts, and skills; and research-based writing to explore and evaluate enduring issues. This course requires a more frequent and longer reading assignments of primary and secondary sources. Projects are assigned throughout the semester.

### 1931 Advanced Placement U.S. Government & Politics

GRADE: 12 20 WEEKS  
EXAM: AP EXAM OFFERING: SPRING SEMESTER  
READING LEVEL: HIGH EXAM COST: \$94  
*Prerequisites: US 11R, 11A, 11H, or AP US and teacher rec*

AP U.S. Government & Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the U.S. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. More specifically, this course provides a thorough examination of the U.S. government's structure and operation, political systems and the policy process. Students will use primary and secondary information to critically evaluate general propositions about government and politics. This also includes presenting basic and relevant information, as well as creating sustained written arguments pertaining to topics such as voting and elections, public opinion polls, federalism and the effect of ideology on the political process. Students must take an AP test in May.

### 1502 Psychology

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE/HIGH  
*Prerequisites: N/A*

This course attempts to answer questions students have about themselves and other people. 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.

### 1612 Criminal Justice (SCCC)

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE/HIGH  
TUITION COST: \$58/CREDIT HOUR  
(2018-19 TUITION RATE)

*Prerequisites: N/A*

Introductory high school level course designed to teach a basic understanding of the field of Criminal Justice. This course provides the philosophical and historical background of the agencies that compose the criminal justice system. It focuses on the development of justice and law, crime and punishment, the administration of laws, the agencies function, career orientation and public policy. Additional topics include crime in America, policing, the court system and corrections. A visit to a state prison and many class speakers are incorporated into the course. This course is based on CRJ 113: Intro to Criminal Justice at SCCC. Students may earn three college credit hours upon successful completion of class.

### 1601 Social Problems (HVCC)

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: TBD  
READING LEVEL: AVERAGE/HIGH  
TUITION COST: \$65/CREDIT HOUR  
(2018-19 TUITION RATE)

*Prerequisites: N/A*

This course is a study of major American social problems with emphasis on their nature, scope, causes, consequences and possible solutions. Major topics covered include: political, educational and familial problems, inequality and poverty, environmental problems, crime and mental illness. This course is based on SOCL 110: Social Problems at HVCC. Students may earn three college credit hours upon successful completion of class.

### 1613 Conflict, Justice & Peace

GRADE: 11, 12 20 WEEKS  
EXAM: LOCAL OFFERING: TBD  
READING LEVEL: AVERAGE/HIGH  
*Prerequisites: N/A*

TA study of major American military engagements (at home and abroad) to better understand the purpose, consequence and experience of military conflict vis-a-vis ethical considerations, human rights, national sovereignty, micro and macro-level tactics and strategies, and technology. Conflict, Justice & Peace cont.: Major topics may include, but are not limited to: the experience of a soldier, tactics and strategies, war crimes, the purpose of



COURSE DESCRIPTIONS: **SOCIAL STUDIES** – CONTINUED

war and conflict, civilians, the military industry complex, national politics, technology, etc. Additionally, the aforementioned topics will be examined through the following American historical periods: The Revolutionary War, The Civil War, The Spanish-American War, WWI, WWII, The Cold War, Vietnam, the Persian Gulf Conflict of the 1990s, and the modern War Against Terror, among other historical periods.

**1622 Current Issues in Criminal Justice (SCCC)**

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GRADE: 11, 12

20 WEEKS

EXAM: LOCAL

OFFERING: TBD

READING LEVEL: AVERAGE/HIGH

TUITION COST: \$58 PER CREDIT

HOUR (2018-19 TUITION RATE)

*Prerequisites: Criminal Justice*

This course is designed to allow study and discussion of those relevant issues of most current concern affecting components of the criminal justice system. Such issues as hiring practices, community relations, court decisions, and the impact of the mass media may be explored in relationship to the administration of justice in America. This course is based on CRJ 233: Current Issues in Criminal Justice at SCCC. Students may earn three college credit hours upon successful completion of this class.

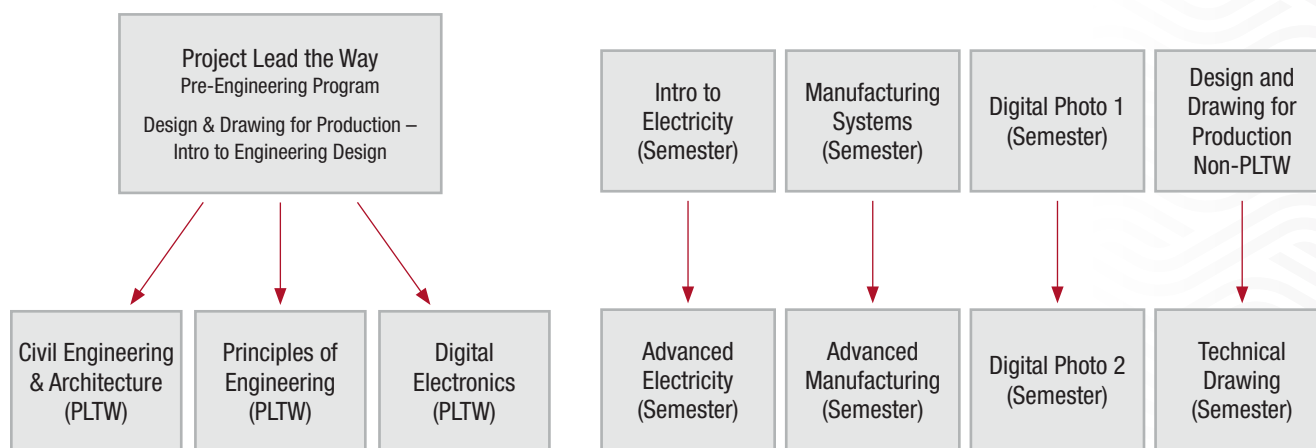




# Technology Education

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. Design and Drawing for Production is the prerequisite course for all PLTW courses, but once completed students can take any of the other courses in any order. Students have the opportunity to earn Rochester Institute of Technology college credit through these courses.

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 website: [www.plt.org](http://www.plt.org)



## 7632 Design and Drawing for Production (PLTW)

GRADE: 9, 10, 11, 12 40 WEEKS  
EXAM: PLTW EXAM (W/FEE) OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: None*

This course stimulates students' understanding 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 graduation. Students have the opportunity to earn three RIT college credits (CASTPLTW-101-88). Exam cost is \$200.

## 7633 Design and Drawing for Production (Non-PLTW)

GRADE: 9, 10, 11, 12 40 WEEKS  
EXAM: LOCAL EXAM OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: None*

Design and Drawing Non-Project Lead the Way is a pre-engineering course that is tailored to students that are interested in computer

aided design but require a slower pace of instruction. Many of the PLTW topics will be taught but there is more of a focus on the NYS DDP curriculum. Students will develop skills in 3-D sketching, computer aided drafting (CAD), modeling, technical design, and production. They will learn to use hand and power tools while producing prototypes of their designs. This hands-on course fulfills the one-unit Art/ Music requirement for graduation.

## 7642 Civil Engineering and Architecture (PLTW)

GRADE: 10, 11, 12 40 WEEKS  
EXAM: PLTW EXAM (W/FEE) OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: DDP and Algebra 1*

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. Students have the opportunity to earn three RIT college credits (CAST-PLTW-104-88). Exam cost is \$200.

**7592 Principles of Engineering (PLTW)**

GRADE: 11, 12                      40 WEEKS  
EXAM: PLTW EXAM (W/FEE)      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: DDP, Algebra 2 or Geometry, Regents Science*

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 problem solving process to benefit people. The course also addresses concerns about social and political consequences of technological change. Students have the opportunity to earn three RIT college credits (CAST-PLTW-102-88). Exam cost is \$200.

**7452 Digital Electronics (PLTW)**

GRADE: 11, 12                      40 WEEKS  
EXAM: PLTW EXAM (W/FEE)      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: DDP, Algebra 2 or Geometry, Regents Science*

Digital electronics are 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 this 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. Students have the opportunity to earn three RIT college credits (CAST-PLTW-103-88). Exam cost is \$200.

**7552 Technical Drawing**

GRADE: 9, 10, 11, 12              20 WEEKS  
EXAM: LOCAL                      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: None*

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.

**7402 Manufacturing System**

GRADE: 9, 10, 11, 12              20 WEEKS  
EXAM: LOCAL                      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: None*

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.

**7442 Advanced Manufacturing**

GRADE: 9, 10, 11, 12              20 WEEKS  
EXAM: LOCAL                      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: Manufacturing Systems*

This course is for students who want to continue their study of manufacturing and production processes and have an interest in developing their woodworking skills. More emphasis will be placed on the manufacturing of a student designed project created on the computer and put into production in the wood shop. New areas will include computer aided drawing, introduction of advanced machines, as well as customized part making and assembly procedures.

**7532 Introduction to Electricity**

GRADE: 9, 10, 11, 12              20 WEEKS  
EXAM: LOCAL                      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: None*

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.

**7542 Advanced Electricity**

GRADE: 9, 10, 11, 12              20 WEEKS  
EXAM: LOCAL                      OFFERING: ONE SEMESTER  
READING LEVEL: AVERAGE

*Prerequisites: Introduction to Electricity*

This course is for students who want to continue their study of electricity and electronics. Students will explore additional possibilities with electrical wiring including multi-phase electrical systems, 240 volt wiring and testing, low voltage systems and wiring, circuit analysis and troubleshooting, circuit design and recalling information from the Introduction to Electricity course. Students will be exposed to actual wiring scenarios, will be required to create technical drawings, use a hands-on approach to create the circuits, and use testing devices to check their work. Newer electrical technology and tools will also be explored.

**7663 Digital Photography 1**

GRADE: 10, 11, 12\*              20 WEEKS  
EXAM: LOCAL                      OFFERING: BOTH SEMESTERS  
READING LEVEL: AVERAGE

*Prerequisites: None*

*\* 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

READING LEVEL: AVERAGE

*Prerequisites: Digital Photography 1*

*\* 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 & ENL

## 4012 French 2

GRADE: 9, 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: French 1*

This course begins where students left off in French 1. Students build upon their vocabulary and focus on the grammatical structures of language. Students participate in a variety of activities to increase their ability to speak, listen, read, and write in the target language. 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  
READING LEVEL: AVERAGE/HIGH

*Prerequisites: French 1 and teacher rec.*

This fast-paced course covers material from French 2 and French 3 in one year. Students are selected based on teacher recommendation during 8th grade. Students broaden their vocabulary through the use of more advanced grammatical structures. This course is taught in the target language.

## 4022 French 3

GRADE: 10, 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: French 2*

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      READING LEVEL: AVERAGE/HIGH  
EXAM: CHECKPOINT B REGIONAL      40 WEEKS  
EXAM      OFFERING: FULL YEAR

*Prerequisites: French 3/French 2A*

The course spirals around topics covered in French 2 & 3. The curriculum is designed to reinforce previously learned language structures and strengthen students' communicative competence. There is a strong emphasis on developing students' speaking and writing. French is used extensively in the classroom.

## 4041 French 5

GRADE: 11, 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisites: French 4*

French 5 is recommended for students who have completed French 4 and a minimum of 2 years of high school French. This course is an intermediate college level course that requires students to use

French to read, discuss and write about French and Francophone literature, film and current events. With the exception of complex grammar concepts, this course is taught in French and students are required to use French when addressing other students or the instructor. Students can choose to enroll in this course for four college credits through the University in the High School Program at SUNY Albany. (\$160) (SUNY Albany Intermediate French 4 credits, AFRE 200). Financial assistance may be available for students who qualify for the free and reduced lunch program.

## 4051 French 6

GRADE: 12      40 WEEKS  
EXAM: LOCAL      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE/HIGH

*Prerequisites: French 5*

French 6 is recommended for students who have completed French 5 and a minimum of 3 years of high school French. This course is an intermediate college level course that requires students to use French to read, discuss and write about French and francophone literature, film and current events. With the exception of complex grammar concepts, this course is taught in French and students are required to use French when addressing other students or the instructor. Students can choose to enroll in this course for four college credits through the University in the High School Program at SUNY Albany. (\$160) (SUNY Albany Intermediate French 4 credits, AFRE 201). Financial assistance may be available for students who qualify for the free and reduced lunch program.

## 4102 Spanish 1

GRADE: 9, 10, 11, 12      40 WEEKS  
EXAM: LOCAL, PROFICIENCY      OFFERING: FULL YEAR  
READING LEVEL: AVERAGE

*Prerequisites: None*

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  
READING LEVEL: AVERAGE

*Prerequisites: Spanish 1*

This course begins where students left off in Spanish 1. Students build upon their vocabulary and focus on the grammatical structures of language. Students participate in a variety of activities to increase their ability to speak, listen, read, and write in the target language. 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  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisites: Spanish 1 and teacher recommendation*

This course includes Spanish 2 and 3 curriculum and is taught at an accelerated pace. Students are placed by teacher recommendations and by performance in their classes in grade 8. Only the Spanish language will be used in class with special emphasis on reading, 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  
 READING LEVEL: AVERAGE  
*Prerequisites: Spanish 2*

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

**4132 Spanish 4**

GRADE: 10, 11, 12      READING LEVEL: AVERAGE/HIGH  
 EXAM: CHECKPOINT B      OFFERING: FULL YEAR  
*Prerequisites: Span 3 or 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.

**4141 Spanish 5**

GRADE: 11, 12      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisites: Spanish 4*

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 is an integral part of this college level course. Spanish is used exclusively in the classroom. Students who wish to receive four college credits may opt to do so by paying college tuition to the University at Albany UHS program. (\$160) (SUNY Albany, Intermediate Spanish 4 credits, ASPN 200). Financial assistance may be available for students who qualify for the free and reduced lunch program.

**4151 Spanish 6**

GRADE: 12      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisites: Spanish 5*

Recommended for students who plan to continue language study in college. Special emphasis is on conversational and writing skills and the ability to read/appreciate written work. Students who

wish to receive four college credits may opt to do so by paying college tuition. Students can choose to enroll in this course for four college credits through the University in High School Program at SUNY Albany. Course is taught exclusively in Spanish. (\$160) (SUNY Albany, Intermediate Spanish 4 credits, ASPN 201). Financial assistance may be available for students who qualify for the free and reduced lunch program.

**4212 German 2**

GRADE: 9, 10, 11, 12      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisites: German 1*

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.

**4222 German 3**

GRADE: 10, 11, 12      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisites: German 2*

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 traveling.

**4231 German 4**

GRADE: 10, 11, 12      40 WEEKS  
 EXAM: CHECKPOINT B REG. EXAM      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisites: German 3*

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.

**4241 German 5**

GRADE: 11, 12      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE/HIGH  
*Prerequisites: German 4*

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. (\$160) (SUNY Oswego, Intermediate Ger 1, Ger 201). Financial assistance may be available for students who qualify for the free and reduced lunch program.

**4312 Italian 2**

GRADE: 9      40 WEEKS  
 EXAM: LOCAL      OFFERING: FULL YEAR  
 READING LEVEL: AVERAGE  
*Prerequisites: Italian 1*

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

**4322 Italian 3**

GRADE: 10 40 WEEKS  
EXAM: CHECKPOINT B REG. EXAM 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: 11, 12 40 WEEKS  
EXAM: LOCAL OFFERING: FULL YEAR  
READING LEVEL: AVERAGE  
*Prerequisites: Italian 3*

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 four college credits may opt to do so by paying tuition to the University in the High School Program through SUNY Albany. (\$160) (SUNY Albany, Intermediate Italian 3 credits, AITA 103). Financial assistance may be available for students who qualify for the free and reduced lunch program.

**4335 American Sign Language (ASL I)**

GRADE: 9, 10, 11, 12

ASL crosses over all groups of people and helps us to be more inclusive. Students will learn to communicate using ASL, while learning about: occupations that use signing, how to identify a home that is deaf-friendly, connect with deaf students through face-to-face and video communication, deaf sporting organizations, explore and analyze artwork by deaf artists, and much more. This is a silent class; all communication happens through sign.

**4336 American Sign Language (ASL II)**

GRADE: 10, 11, 12 40 WEEKS  
*Prerequisites: ASL I*

This class is a continuation of ASL I. Students need to have completed ASL I in order to enroll. Students will advance their skills and become more fluent in their communication with members of the Deaf community. This is a silent class as students will communicate through sign. ASL II is mandatory for students who are working towards Checkpoint B completion for graduation.

**4337 American Sign Language (ASLIII)**

GRADE: 10, 11, 12 40 WEEKS  
*Prerequisites: ASL I & II*

Students will advance their skills and become more fluent in their communication with members of the Deaf community. This is a silent class and students will communicate fully through signs only. ASL II is a mandatory prerequisite for students who are working towards Checkpoint B completion for graduation. Students will take the Checkpoint B exam in ASL III. This will enable them to qualify to earn the Advanced Designation Diploma.

**4452 ENL Content**

GRADE: 9/10 40 WEEKS  
(COURSE NUMBER 4422) OFFERING: FULL YEAR  
GRADE: 11/12  
(COURSE NUMBER 4425)

This course is specially designed for non-native speakers of English who have been identified as English Language Learners (ELL) according to the state-approved identification assessment (the NYSITELL). Placement after the first year in the program will be based on NYSITELL scores. \*Credit will be offered for up to two years in the same level.

## Notes





# **Guilderland**

## **HIGH SCHOOL**

### **CURRICULUM GUIDE**

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[www.guilderlandschools.org](http://www.guilderlandschools.org)

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