Mission Statement

Saratoga Springs High School is committed to the goal of excellence in education. Students will, through their best efforts and the best efforts of their teachers and staff, become responsible, contributing members to both their school and society.

The goal of the Saratoga Springs City School District is to provide every student with the best possible education by providing within our resources for individual needs in all developmental areas: intellectual, creative, social, emotional, physical and ethical.

To assist students in career and educational planning, as well as in personal development, Saratoga Springs High School has a Counseling Department with a professional staff of school counselors. The counselors can help students understand themselves, their school, and their career goals by meeting with students individually, as well as in groups. Counselors are responsible for a student’s overall educational program. They communicate with parents, teachers and other school staff to better assist in this process. Parents are encouraged to consult with their child’s counselor for help with a student’s adjustment to school, personal growth and development, program selection, career planning and information about colleges and scholarships. Counselors meet with each student at least once a year to review progress and plan courses for the following year.

Though comprehensive in nature, this course description guide is not intended to answer all the questions or concerns you may have relative to the broad educational opportunities your child will enjoy here. Only direct communication between home and school will accomplish that goal. We encourage this ongoing communication, for it is vitally important that your child not only attend school, but that he/she experience success.
## Directory

### Principal
Michelle Tsao  
**Telephone**: 587-6690  
**Extension**: 33300

### Assistant Principals
- Cody Conley  
- Johanna Friedman  
- Stacey Ralston  
- Kevin Wolpert
  
- **Telephone**:  
- **Extension**: 33300

### School Counseling Department
- **Mellisa Allen** (Department Chair)  
- **Serene Couture**  
- **Brandy Crary**  
- **Colleen Grassi**  
- **Siobahn LaMar**  
- **Geoffrey Loiacono**  
- **Matthew Nelson**  
- **Maura O’Connell**  
- **Brittany Pfaff**
  
- **Telephone**:  
- **Extension**: 33300

### School Psychologists
- **Lucia Nicholas**  
- **Dan Walter**
  
- **Telephone**:  
- **Extension**: 33300

### Social Worker
- **Judy Brust**
  
- **Telephone**: 36204

### School Resource Officer
- **Lloyd Davis**
  
- **Telephone**: 33324

### Attendance Supervisor
- **Jennifer Kelly**
  
- **Telephone**: 33388

### School Nurses
- **Linda Rastinehad (9-10)**  
- **Debbie Tallman (11-12)**
  
- **Telephone**:  
- **Extension**: 33385

### Academic Departments

<table>
<thead>
<tr>
<th>Department</th>
<th>Department Chair</th>
<th>Extension</th>
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</thead>
<tbody>
<tr>
<td>Art</td>
<td>Dawn Talley</td>
<td>33320</td>
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<tr>
<td>Business</td>
<td>Tim McGuiggan</td>
<td>33317</td>
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<tr>
<td>English</td>
<td>Bridgette Gallagher</td>
<td>33319</td>
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<tr>
<td>FACS</td>
<td>Joanne Nangeroni</td>
<td>12257</td>
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<td>PE/Health</td>
<td>Michael Hall</td>
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<td>Science</td>
<td>Chris DeLorenzo</td>
<td>33310</td>
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<tr>
<td>Social Studies</td>
<td>Ron Schorpp</td>
<td>33315</td>
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<tr>
<td>Special Education</td>
<td>Lisa Quinn</td>
<td>33339</td>
</tr>
<tr>
<td>Technology</td>
<td>Michael Gallagher</td>
<td>33355</td>
</tr>
<tr>
<td>World Languages</td>
<td>Colin Quinn</td>
<td>33316</td>
</tr>
</tbody>
</table>
**Graduation Requirements and Pathways to Graduate**

New York State has introduced new options in recent years for students to meet graduation requirements. The Regents exams that have traditionally been used to satisfy the testing requirements for a Regents and Regents Diploma with Advanced Designation Diploma remain. The state has also designated additional “pathways” for students to satisfy diploma requirements, generally through some variation in required exams. While these pathways are referenced below, parents who have any questions about graduation requirements are strongly encouraged to contact their child’s counselor.

**Course Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Regents Diploma</th>
<th>Regents with Advanced Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 Units</td>
<td>4 Units</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 Units</td>
<td>4 Units</td>
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<tr>
<td>Mathematics</td>
<td>3 Units</td>
<td>3 Units</td>
</tr>
<tr>
<td>Science</td>
<td>3 Units</td>
<td>3 Units</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>1 Unit</td>
<td>3 Units</td>
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<tr>
<td>Health</td>
<td>½ Unit</td>
<td>½ Unit</td>
</tr>
<tr>
<td>The Arts</td>
<td>1 Unit</td>
<td>1 Unit</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2 Units</td>
<td>2 Units</td>
</tr>
<tr>
<td>Electives</td>
<td>3 ½ Units</td>
<td>3 ½ Units</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>22 Units</strong></td>
<td><strong>22 Units</strong></td>
</tr>
</tbody>
</table>

**Testing Requirements**

Students must demonstrate competency in reading, writing, math, science and social studies by passing the examinations listed below:

Criteria to earn a Regents Diploma (passing score – 65%)
1. English Language Arts Regents Examination (one exam)
2. Social Studies Examination (one exam)
3. Mathematics Regents Examination (one exam)
4. Science Regents Examination (one exam)
5. Checkpoint A for LOTE or 1 unit of high school World Language credit

AND ONE OF THE FOLLOWING:
- A score of 65+ on a fifth Regents exam in Social Studies, Math OR Science
- A state-approved Career and Technical Education assessment/pathway (the list is available from BOCES)
- A state-approved Arts Pathway (Advanced Placement Studio Art)
- C-DOS Pathway Career Plan (216 hours and CTE coursework plus 54 of those hours in a work-based learning experience plus the completion of an Employability Profile). The 54 hours do not need to be in the same program as the coursework.

Earning a Regents Diploma with Honors

Students receive a Regents Diploma with Honors by achieving a computed average of 90% or above on the required Regents Exams as referenced on the Regents Diploma requirements.
Criteria to earn a Regents Diploma with Advanced Designation (passing score – 65%)

1. English Language Arts Regents Examination (one exam)
2. Social Studies Examination (one exam)
3. Mathematics Regents Examination (three exams)
4. Science Regents Examination (two exams)
5. Checkpoint B for LOTE or 1 unit of high school World Language credit

AND ONE OF THE FOLLOWING:

- A score of 65+ on a fifth Regents exam in Social Studies, Math OR Science
- A state-approved Career and Technical Education assessment/pathway (the list is available from BOCES)
- A state-approved Arts Pathway (Advanced Placement Studio Art)
- C-DOS Pathway Career Plan (216 hours and CTE coursework plus 54 of those hours in a work-based learning experience plus the completion of an Employability Profile). The 54 hours do not need to be in the same program as the coursework

Earning a Regents Diploma with Advanced Designation with Honors

Students receive a Regents Diploma with Advanced Designation with Honors by achieving a computed average of 90% or above on the required Regents Exams as referenced on the Regents with Advanced Designation requirements.

Criteria to earn a Career Development and Occupational Studies Commencement Credential

A CODS Commencement Credential can be used as a standalone high school exiting credential that shows students meet work-readiness criteria, a supplement to a high school diploma, or to help meet Regents Diploma requirements as outlined above. To successfully meet CDOS Commencement Credential requirements, students must complete a career plan and demonstrate attainment of career exploration and development learning standards. CDOS requirements integrate academic course work and workplace readiness skills. Students must complete the equivalent of two units of study in Career and Technical Education course work, including 54 hours of work-based learning, and at-least one employability profile.

*Students acquiring 5 units of credit in one of the following may be exempt from the LOTE requirement: Art, Business, Music, or Career and Technical Education.*

*Endorsements (three (3) regent’s examinations in Math and (3) in Science with an 85% or higher)*

*Mastery in Math and Science*

*For more information regarding New York Diploma Requirement, please visit:*

Important Considerations and School Policies

Course Load Requirements
Students in grades 9-11 must carry a minimum of 6.5 credits (includes Physical Education) each semester. Seniors must carry a minimum of 5.5 credits (includes Physical Education).

Program Planning
When you plan your high school program you should take into consideration your special abilities, interests, and objectives. Your pattern of studies will be built around a minimum of required subjects. By carefully selecting elective subjects that meet your needs and satisfy your interests and abilities, you may work toward your own educational, career and technical, and personal goals. It is the student’s responsibility to consult with your parent, teachers, and school counselor.

College Entrance Requirements
Colleges prefer a strong academic preparation in high school. Specific subject and grade average requirements vary from one institution to another, as the institutions differ in the programs they offer and kinds of students they seek. Colleges prefer students who have had a high school program that includes four years of English and Social Studies, three to four years of Math and Science, and two to five years of Foreign Language. College bound students who decide to drop one of these areas before they graduate should do so only after careful consultation with teachers, counselors, and college/universities.

Advancing Through Sequential Courses
There are specific prerequisites for advancing through sequential courses in Art, Mathematics, Science, Technology, and World Language. Please read those departmental sections carefully.

Class Placement / Promotion Policy
Class placement is based on the number of credits previously earned. A student must have a minimum of 5.5 credits to be considered a sophomore. Students must accumulate eleven (11) units of credit before they are ranked as a junior, and fifteen (15) units are required for classification as a senior.

Graduation in Less Than Four Years
Saratoga Springs High School Students may graduate in less than four years. The decision to do so should be made by parents and students based on the student’s goals, so that the time gained by this decision will be put to good use in work, or travel. After a parent/student have discussed the proposal thoroughly, they should consult the student’s counselor for a careful consideration of how such a decision could affect the student’s future.

Course Adjustments
We ask that you carefully follow our procedures, so that all major stakeholders can give input to assure that a scheduling change is both possible and in the best interest of the student. If you are considering a level change or dropping a course, contact your classroom teacher to begin the process. Level changes must be completed on or before November 1st. If you are considering adding a new course, you can do so on or before the third-class session. The deadline to drop a full-year course is the end of the first quarter, and third quarter for a second semester course. If a student requires a drop and/or level change after November 1st, this will require final approval by the assigned administrator, and the course will stay on the official transcripts with a grade indicated by WF – Withdraw Failing or WP – Withdraw Passing. This grade will not be calculated into the student’s final average.

Weighted/Unweighted Grade Point Average
Saratoga Springs High School utilizes a weighted grading system. Each course is assigned a point value in accordance with course difficulty. A student’s final average in each course is then added to the course value to determine the weighted average for each course. An overall average of all weighted courses is calculated prior to the student’s final year in high school. This process is normally performed in late August. The weighted average is only used for ranking purposes. Saratoga Springs High School uses a non-weighted average to determine overall grade point average (GPA) for graduation recognitions.
Board of Education Policy for Compulsory Attendance

Children who turn six (6) years old after December 1 of a school year must receive full-time instruction from the first day of school in the following September. As provided in Education Law Section 3205(3), a student shall be required to remain in attendance until the last day of session in which the student becomes seventeen (17) years of age. Therefore, any child turning 17 on or after July 1 of a given year can no longer be legally discharged from school until the end of the following school year and must attend school regularly as stated in the law. The Board of Education will take all reasonable steps to ensure compliance with all aspects of this statute.
Honors and Advanced Placement Courses

Honors

Honors courses are offered for students of outstanding promise in English, Social Studies, Foreign Language, Mathematics, and Science. Honors study in one or more of these areas is based upon consideration of the student’s ability to engage in a program that is both accelerated and strengthened.

Advanced Placement

Preparation for AP exams in English, Social Studies, Psychology, Math (Statistics, AP Calculus AB and BC), Science (Chemistry, Biology, Physics 1, 1-2, and C), Art, Music, and Computer Science are offered at this time. Students interested in electing any one of these college-level courses should consult with their teachers and school counselor. Colleges may give credit and/or advanced course placement to those students who take the AP examination and demonstrate mastery of the material presented in the course. Students and parents should contact colleges directly for full information about their AP credit policies.

The AP examination is a requirement in each Advanced Placement course. Students will need to either pay the exam fee or file for a fee waiver, based on need. If a student does not arrange to sit for this examination, the AP designation will be removed from the course name on the official transcript. In addition, this situation will be communicated to each respective college admissions office.

Recommendations for Honors/Advanced Placement Programs

The purpose of the following guidelines is to clearly define the criteria used in recommending student placement. Honors and Advanced Placement programs are designed for students who demonstrate a high level of interest, aptitude and prior success in the subject matter.

Criteria for Recommendations

- Works well independently; seeks help only when necessary, does not require detailed or repeated directions from teacher in order to proceed.
- Is creative, can think of methods to try, or use original methods when faced with a problem or situation.
- Readily applies learned principles to new situations; can solve novel problems, responds well to guided discovery.
- Responds positively to challenging situations; shows persistence in searching for solutions; finds satisfaction in independently solving a problem rather than accepting another person’s solution or help.
- Likes to analyze, generalize, derive, prove, and abstract; to investigate relationships and alternative solutions.
- Has a strong intuitive sense for the subject matter. Sorts out key relationships quickly.
- Shows a high degree of interest and motivation; is intellectually curious and a critical thinker.
- Has experienced high achievement in past courses without undue stress; has not depended heavily on rote learning or tutoring.
- Shows above average ability in oral and written expression.
- Ability to demonstrate long-term planning skills.

Open Enrollment (Self-Selection for Honors and AP courses)

Students who have not been recommended by the teacher or department for an Honors or AP course may enroll in the course. Teachers, department heads and counselors are available to discuss questions regarding the course expectations and recommended preparation. It is important to note, however, that the final decision regarding placement rests with the student and his/her parent.

Students and parents should be advised that once a student has signed up for an Honors/AP course, there is no assurance that a request for a level change can be accommodated. All requests will be subject to availability and enrollment in the corresponding Regents level course. In addition, it is important to note that requesting a level change for a course might result in an undesirable disruption to the student’s original schedule and therefore may not be possible to honor. Students are urged to make use of advanced planning and exploration strategies when self-selecting for an Honors or AP course.

Students who become enrolled in AP courses are required to take the corresponding advanced placement exam. Exam fees applies.
National Honor Society

The AGO Taras Chapter of the National Honor Society

National Honor Society Application Process:

- You must have a 92% average (weighted-not 91.9) by the end of second quarter of your junior year. This is a five-semester average of your 9th, 10th, and the first half of the 11th grade. (For senior inductees the 90 average is calculated at the end of the second quarter of your senior year and includes a seven-semester average of your 9th, 10th, 11th and the first half of your 12th grade.

- You must attend all meetings. There is usually one meeting a month. If you miss a meeting you must make it up the following Monday in our officer’s meeting in room B217. If you miss more than one meeting you will not be eligible for NHS.

- You need the signatures of five teachers who recommend you to be a member of NHS.

- You must have your grade administrator’s signature indicating no significant conduct/discipline issues. It is expected that your behavior will always be exemplary. You must not have excessive absences or tardies.

- You must have completed 20 hours of service and document it on the service record sheet provided. Do not lose it. Begin service time as soon as possible, since the school year is always a busy time. Three of the 20 hours must be service in the Saratoga Springs City School District, and at least 12 need to be service to the community. Service begins as of June 26 of the present school year. Ushering or playing at graduation can count as school hours.

- You must write a one-page reflective essay on what the community service experience meant to you. Poor quality essays will not be accepted. The guidelines for the essay are as follows: essay must be typed and double-spaced, essay must be minimum of one page (no more than three pages), must be well-written and proofread, and essay must include specifics about community service experiences.

- You must participate in the Relay for Life associated with the American Cancer Society for a minimum of one hour.

- Students must hand in the complete packet of application to the NHS co-advisors no later than Monday, January 14th. A faculty committee will review your application. The Counseling Department will determine your academic average.
NCAA Eligibility Information

Courses that have been approved by the NCAA are:

English:
- English 9
- English 9 Honors
- English 10
- English 10 Pre-AP
- English 11
- AP Literature and Composition
- AP Language and Composition
- Art of Writing
- Critical Thinking
- Exploring Science Fiction
- Journalism
- Contemporary Literature
- Early College in the High School English

Social Science
- Global History and Geography I
- Global History and Geography I Honors
- Global History and Geography II
- AP World History
- U.S. History and Government
- AP U.S. History
- AP Macroeconomics
- Participation in Government
- Economics
- Sociology
- Psychology
- AP European History
- Green Economics/Public Policy
- Saratoga Springs Local History
- War and Diplomacy
- Ancient Civilization

Mathematics
- Algebra
- Algebra with lab
- Geometry
- Geometry Honors
- Algebra 2
- Pre-calculus Honors
- Pre-calculus and Advanced Topics
- AP Statistics
- AP Calculus AB
- AP Calculus BC
- Calculus
- Financial Algebra

Natural Science/Physical Science
- Biology (Living Environment)
- Biology Honors
- Chemistry
- Chemistry Honors
- Earth Science
- Environmental Science
- Environmental College
- Physics
- AP Physics 1
- AP Physics 1-2
- AP Chemistry
- AP Biology
- AP Computer Science
- Introduction to Nanotechnology
- Natural Disasters I/II

Additional Core Courses
- Latin 1-2
- Latin 1
- Latin 2
- Latin 3
- Latin 4
- Latin 5
- Spanish 1
- Spanish 2
- Spanish 3
- Spanish 4
- Spanish 5
- French 1
- French 2
- French 3
- French 4
- French 5
Departments and Courses

Art Department
The art program offers numerous discipline-based courses aimed at expanding students’ skill development and conceptual understanding in art production, aesthetic judgment, art criticism and art history. The purpose of this program of study is to enrich students’ lives through their engagement in the many functions and forms of authentic arts-based learning.

Graduation Requirements
New York State requires all students to successfully achieve one credit of art or music for graduation. An introductory foundation course, Foundations in Art, is designed to address the New York Standards for Art Education at the commencement level while providing an overview of the major areas of concentration in visual and fine arts.

Art as a Sequence of Study
Students planning to major in art must have at least a three-unit sequence of art courses, and, if pursuing the Advanced Regents Diploma, a five-unit sequence of art courses. The sequence generally begins in the 9th grade with Foundations in Art. The student should schedule as many art courses as possible during the next three years. Portfolio Development and AP Studio Art courses are recommended for a student to prepare a portfolio of artwork needed for college, or art school admissions.

Fine Art as a Sequence of Study
Students may pursue a five-unit sequence for a Regents Diploma with Advanced Designation in the fine arts by taking a combination of art and music courses totaling in five units. If pursuing the Regents with Advanced Designation Diploma, a student must choose one of the following sequences:

- Fine Arts: Foundations in Art and four units of art and/or music courses
- Music: Five-unit music sequence (band, chorus, orchestra, Music Theory, AP Music Theory)

Art Progressions
(These progressions are sample progressions; however, students may customize their progression at any time)

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
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</thead>
<tbody>
<tr>
<td>Foundations in Arts</td>
<td>Advanced Drawing or Advanced Painting</td>
<td>Computer Graphics I or Digital Video or Mixed Media I and II or Ceramics 1 and 2</td>
<td>Computer Graphics II or Digital Photography</td>
</tr>
<tr>
<td>Drawing and Painting I</td>
<td>Portfolio Development or Advanced Placement Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any art elective, providing the prerequisite is met</td>
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FOUNDATIONS IN ART
0430 Full Year 1 credit Grades 9-12
This course is the comprehensive “foundation” for all secondary school art. Foundations in Art is a prerequisite to most high school art courses. In this course, students will have a brief exposure to 2- and 3-dimensional art, with a variety of artists, techniques and media. The exposure to these areas in the excitement of a studio atmosphere will encourage the development of concepts and skills in the visual arts. This course develops an understanding of art for students as a life-long learning and engagement process. Participation in class critiques is expected.

Meets Fine Arts Requirement for graduation. Prerequisite for other Art electives.

DRAWING AND PAINTING
0423 Full Year 1 credit Grades 9-12
The Drawing and Painting course is designed for students whose primary interest in art lies in two-dimensional expression. Areas of study will include light and shade, line, observational drawing, texture, and other various combinations. The course emphasizes the use of color and color theory in several media including acrylic paint, watercolor, charcoal, pastel, and conte. Students will be expected to have a 11 x 14-inch sketchbook and complete assignments outside of class. Participation in class critiques is expected.

Prerequisite: Successful completion of Foundations in Art (80% or better). Teacher recommendation is required for 9th grade students.
ADVANCED DRAWING
0423  Full Year  1 credit  Grades 10-12
Advanced Drawing is designed to improve artistic skills and facilitate the transition from high school art to college-level study. Students will receive support and direction to further develop skills in design, spatial representation, perspective and figure drawing and figure drawing. Various aspects of drawing will be explored through different subjects and media. Participation in class critique is expected. Projected to be offered in 2020-2021.
Prerequisite: Drawing and Painting

ADVANCED PAINTING
0415  Full Year  1 Credit  Grades 10-12
Advanced Painting will introduce students to classical painting techniques and concepts. Oil will be the primary medium of focus for this class. Students will also paint in acrylics, Japanese ink and watercolor media. Students will be introduced to the work of master painters, advanced techniques and the history of painting. Students will be expected to provide materials for stretching their own canvas. Participation in class critique is expected.
Prerequisite: Drawing and Painting

PORTFOLIO DEVELOPMENT
0401  Full Year  1 Credit  Grades 11-12
This course is for students who are considering an Art Major in college. All design majors, architecture, graphic artists and drawing or painting majors need a college entrance portfolio, therefore, students will gain an understanding of portfolio presentation choices based on their specific area of study. Participation in class critique is expected.
Prerequisite: Drawing and Painting

AP STUDIO ART
0400  Full Year  1 Credit  Grade 12
This AP course is designed for the art student who can make a serious commitment to personal expression through the visual arts in terms of both time and effort. AP credit is not granted based upon a written exam, but rather as the result of an evaluation of an extensive portfolio submitted by the student. The sophisticated application of artistic knowledge and skills is presented within the portfolio in the categories of quality, breadth, and area of concentration. The AP exam is required of all students taking an AP course. Students who do not take the exam will not receive AP course credit. The examination, which is administered by the College Entrance Examination Board, is recognized by almost all colleges for advanced placement or college credit. A fee is charged by the College Board and must be paid, or the student may be removed from the course.
Prerequisite: A sequence of 3 art courses and department permission is required. Students are required to take the AP exam in May and will be responsible for the exam fee.

BLACK AND WHITE PHOTOGRAPHY
0406  1 Semester  .5 Credit  Grade 12
This course is an introduction to 35mm black and white photography and the use of photographic materials and processes as an art medium. Content covered includes: 35mm camera operation, film and print processing, traditional darkroom techniques, and other specialized techniques. Emphasis will be placed on seeing with imagination and creativity and organizing what is seen into a well-designed photograph.
Prerequisite: 35mm camera required and photo paper

ELECTRONIC/DIGITAL MEDIA ART COURSES

COMPUTER GRAPHICS I
0417  Full Year  1 Credit  Grades 9-12
This course will teach the fundamentals of graphic design through the creative process of combining art and technology to communicate ideas. It is intended for the student who is interested in learning about visual communication, which includes typography, product design, cartooning, advertising and logo design. Students will learn the visual problem-solving process of following concept through its initial creation to the finished product, using a Macintosh computer and Adobe software. Participation in class critiques is expected.
Prerequisite: Foundations in Art or Design and Drawing for Production and a four-gigabyte (minimum) flash drive

COMPUTER GRAPHICS II IN DESIGN
0412  1 Semester  .5 Credit  Grades 10-12
Interested in creating more art on the computer? Did you love manipulating photos and designing your own cartoon characters in Computer Graphics I? Want to learn how the pros at big name magazines put together their photos and text to create beautiful publications? Then Computer Graphics II In Design is for you! Through this course, you will learn advanced Photoshop and Illustrator techniques, as well as the multi-page design software, In Design, used at professional publications across the country. Come and further explore the fascinating world of design through Computer Graphics II In Design. Participation in class critiques is expected.
Prerequisite: Computer Graphics I and a four-gigabyte (minimum) flash drive
COMPUTER GRAPHICS II COREL PAINTER
0413 1 Semester .5 Credit Grades 10-12
Just can’t get enough of computer graphics? Are you interested in learning about advertising and the visual elements behind creating a successful ad campaign? Want to learn new drawing at advertising studios and design firms? Then Computer Graphics II Corel Painter is for you! Through this course, you will learn advanced Photoshop and Illustrator techniques, as well as the digital drawing and painting program, Corel Painter, used by professional artists and designers across the globe. Participation in class critiques is expected.
Prerequisite: Computer Graphics I and a four-gigabyte (minimum) flash drive

DIGITAL PHOTOGRAPHY
0418 1 Semester .5 Credit Grades 10-12
Through a combination of lectures, demonstrations, assignments and critiques, students will learn to visually communicate with a digital camera. Students will explore basic tools, techniques and aesthetics of digital photography. There will be an emphasis on the creative use of camera controls, exposure, digital imaging software (Adobe Photoshop), and an awareness of the impact digital photography has on our contemporary society. Access to a digital camera of at least 3.0 mega pixels is required.
Prerequisite: Foundations in Art. Digital Camera is required.

DIGITAL VIDEO
0403 Full Year 1 Credit Grades 10-12
This media art course introduces basic film and video techniques. In this course you’ll learn the basics of the digital video camera, its use and operation. You’ll explore film history, as well as, the fundamentals of storytelling and visual communication. Each student will also could use video and sound editing software packages, Final Cut Pro and Garage band, to create their own videos. A DVD of each student’s work will be produced at the end of the year.
Prerequisite: An eight gigabyte (minimum) flash drive is required.

3-D ART COURSES
CERAMICS I
0425 1 Semester .5 Credit Grades 10-12
Students will be immersed in hands on exploration of the many processes and techniques of working with clay through exploring ceramic: art, artists and cultures throughout history to present day. Hand building skills, the use of the potter’s wheel, glazing and firing techniques will be taught. Several pieces will be created, both functional and non-functional.

CERAMICS II
0426 1 Semester .5 Credit Grades 10-12
Students will continue their hands-on journey, as they build upon their existing skills in the area of clay pottery and ceramic sculpture through the exploration of ceramic: art, artists and cultures throughout history to present day. The ceramic art of combining both hand built and thrown pieces will be taught along with ceramic sculpture. New possibilities with glazes and firing techniques will continue to be explored. Several pieces will be created, both functional and sculptural.
Prerequisite: Ceramics I

MIXED MEDIA I
0420 1 Semester .5 Credit Grades 9-12
Mixed Media is the use of more than one medium in an individual piece of art. Join and explore the creative process and techniques of making both 2-dimentional and 3-dimentional art. Assignments encourage independent thinking in an Art studio atmosphere, where students will create several unique pieces of art using assemblage, drawing, collage, painting and/or sculpture. Traditional and non-traditional materials will be used, and students will be responsible for their own pencil and black sharpie. In addition to class projects, students will also be responsible for two visual journal assignments each month. Participation in class critiques is expected.
Prerequisite: Foundations in Art

MIXED MEDIA II
0421 1 Semester .5 Credit Grades 9-12
Students interested in continuing their creative journey from Mixed Media I, should sign up for Mixed Media II. Student will expand on the process and techniques of making both 2-dimentional and 3-dimentional art. Several unique pieces of art will be created with a variety of materials. Students will have more independence and can choose assemblage, drawing, collage, painting and/or sculpture for each assignment. In addition to class projects, students will also be responsible for two visual journal assignments each month. Participation in class critiques is expected.
Prerequisite: Mixed Media I
Business and Information Systems
The Business and Computer Information Systems Department at Saratoga Springs High School provides a foundation to pursue programs such as business administration, accounting, marketing/management, law and finance. The course offerings include a variety of learning experiences that will give students the basic skills and knowledge to be a successful participant in today’s society as a consumer, a citizen and an employee. All business courses may be used for CTE or CODS credential hours. (Full year = 108 hours, ½ year = 54 hours)

Business and Computer Information Systems Progressions (Sample)

<table>
<thead>
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<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
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</thead>
<tbody>
<tr>
<td>American Entrepreneur or Accounting or Principles of Marketing or Business, Consumer &amp; Personal Law or Digital Com.</td>
<td>Career &amp; Finance Manage. or American Entrepreneur</td>
<td>College Business Law I or College Principles of Marketing or College Principles of Management or College Accounting or College Acct.</td>
<td>College Business Law I or College Principles of Marketing or College Principles of Management or College Accounting or CEIP</td>
</tr>
</tbody>
</table>

DIGITAL COMMUNICATIONS/PRESENTATIONS
0521 1 Semester .5 Credit Grades 9-12
This half-year, project-based course provides you with a nonthreatening environment for to conquer public speaking. You will acquire and polish your current preparation and presentation skills to give yourself a competitive advantage in both the academic and business settings. Key topics include: time management, script writing, reaching your audience, poise, researching, intro/conclusion execution, and more. Presentations include: Introduction, Biographical, Demonstration, Persuasive, Motivational, Current Events, and Podcasting.

CAREER AND FINANCIAL MANAGEMENT
0519 Full Year 1 Credit Grades 10-12
This course emphasizes career preparation and exploration and using the Internet for research. Financial literacy is stressed throughout the course as students learn how to develop personal budgets, handle checking accounts, make investments, manage credit wisely, fill out income tax forms and evaluate insurance needs. In addition, students will develop a general knowledge of economics and understand how the U.S. economy works in today’s global marketplace. Students will understand the basics of business organization and be able to discuss current workplace issues. Each student will develop a portfolio that will include a resume and cover letter.

ACCOUNTING
0512 Full Year 1 Credit Grades 9-12
Do you want to learn how to read and interpret financial reports for a company? If so, this is the course for you! This is a one-year comprehensive course in double entry accounting procedures. You will learn to keep financial records for service and retail businesses. Principles covered include the accounting cycle, debit/credit theory, financial statements, use of various journals and ledgers, accounts receivable and payable, and payroll systems. QuickBooks, an accounting software that you will use to complete two accounting simulations, will allow you to develop a complete understanding of the accounting cycle. You will also learn how to use Microsoft Excel which will prepare you for college and beyond. Accounting is a skill-level course that is of value to all students pursuing a strong background in business, finance, marketing and management.

COLLEGE ACCOUNTING
(College in the High School Program)
0502 Full Year 1 Credit Grades 11-12
This is a one-year course offering students the opportunity to earn four college credits through SUNY Adirondack College. This course is an introduction to financial accounting as used in the decision-making process with a focus on the external user of accounting information as related to operating, investing, and financing activities. Topics include: the accounting processes and systems, classified financial statements, concepts and practices relating to current and long-term assets, inventories, current and long-term liabilities, equity, cash flows, and other current topics. Accounting is a requirement for anyone planning to pursue any business degree, so this is a great way to earn those credits.

(College Credit 4 units: SUNY Adirondack. Fee is required for college credit. Student may opt to take the course for only high school credit)
PRINCIPLES OF MARKETING
0525 Full Year 1 Credit Grades 9-12
Have you ever thought about the products that you own? Did you buy them based on the price, the quality of the product or the cool posts on social media and the brand image? A company needs a way to communicate its advantages to potential customers and it does so through marketing. This one-year course is designed to help you develop an understanding of the principles of marketing including market research, target marketing, product development and packaging, pricing, advertising and promotion, and merchandising. Join the class and make a commercial, create a survey, design a new game and improve your teamwork and presentation skills.

COLLEGE MARKETING
(College in the High School Program)
0501 Full Year 1 Credit Grades 11-12
This is a one-year course offering students the opportunity to earn three college credits through SUNY Adirondack. College Principles of Marketing is an essential course for anyone interested in pursuing a major or career in business and marketing. This course covers the history of marketing and development of current marketing practices. Emphasis is on the marketing concept and the decision-making process. Includes practical applications designed to develop student interest in the field of marketing.
(College Credit 3 units: SUNY Adirondack. Fee required for college credit. Student may opt to take the course for only high school credit)

COLLEGE BUSINESS LAW I
(College in the High School Program)
0504 Full Year 1 Credit Grades 11-12
This course focuses on legal concepts, principles and rules of law pertaining to the legal environment of business. Subject areas include identification and application of sources of American Law to determine the outcome of legal issues, review of Constitutionally protected rights under the Bill of Rights, alternative methods of resolving legal disputes, the Federal and State Court System, civil litigation process and procedure, the law of torts, criminal law, cybercrimes, intellectual property law, and the law of contracts and e-commerce. Ethical concerns and considerations will be stressed in each subject area.
(College Credit 3 units: SUNY Adirondack. Fee required for college credit. Student may opt to take the course for only high school credit)

BUSINESS, CONSUMER & PERSONAL LAW
0513 Full Year 1 Credit Grades 9-12
This full-year course offers you an opportunity to learn about the practical applications of laws and how they affect you. Key law topics include: The Constitution, Court Systems, Criminal system, Civil system, Contracts and more. This course is a hands-on approach to applying every day legal situations. Students will participate in mock trials and case debates for a practical approach to many of today’s trending legal issues.

SPORTS MARKETING
0510 1 Semester .5 Credit Grade 12
Sports Marketing is only available Senior year. It is a half-year, project-based course that focuses on the effects of the sports industry. The course is designed to take a hands-on approach to examine the needs and wants of the sports consumer. You will create projects based on branding, careers in sports, advertising, amateurism, licensing, and more. As a final project, you will learn how to research and promote a new sports organization.

COLLEGE PRINCIPLES OF MANAGEMENT
(College in the High School Program)
0500 Full Year 1 Credit Grades 11-12
Explore the diverse world of business and earn three college credits. This course develops both the content and process issues of management. Defines the functional activities of planning, organizing, staffing, directing and controlling, while stressing the areas of communications, decision making, group dynamics, conflict resolution, motivation, leadership, and individual self-improvement. The art of delegation is explored in the issues of authority, accountability, and responsibility. This course presents an introduction to the major disciplines of business: management, marketing, finance, and human resource management. Case studies and current event news events are used to bring the world of business into the classroom.
(College Credit 3 units: SUNY Adirondack. Fee required for college credit. Student may opt to take the course for only high school credit)

AMERICAN ENTREPRENEURSHIP
0505 Full Year 1 Credit Grades 9-12
Want to own your own business? Be your own boss? This one-year course is designed to help you gain an understanding of how to start and successfully run a small business and develop the skills needed to be an entrepreneur. Topics covered include entrepreneurship, management, merchandising, communications, financial planning and the legal aspects of starting a small business. Guest speakers from area businesses are invited into the classroom. A study of entrepreneurs past and present, hands-on activities, group projects, and Shark Tank will support the learning process.
What is it like to be an accountant, financial planner, graphic artist or physical therapist? Why not find out before going off to college or starting a career? The 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 experiences 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. Students will need to complete 54 hours in their internship experience and 27 hours of classroom instruction. Career related topics such as resume writing, interviewing, teamwork, time-management and health and safety in the workplace are introduced during the classroom component of the program.

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

- A completed application and recommendations must be submitted for approval. Attendance, discipline and teacher recommendations will be considered.
- Must provide their own transportation to internship assignments.
- Parents and students will sign a contract documenting their understanding of the course expectations.
- Complete a minimum of 54 hours at their internship placement (required by NY State).
- Complete an equivalent of 27 hours of coursework through classroom experience (required by NY State).
- Students who drop CEIP on or after the start of school will receive a Withdraw Fail (WF)
English Department
The Saratoga Springs High School offers students multiple pathways for fulfilling New York State’s required four years of course work in English Language Arts. Students have the option of Honors or Advanced Placement course at each level. In junior year, Journalism is offered as an elective course only. Senior year, there are a wide variety of electives available for students to choose from. Students can take multiple English courses in their senior year.

Honors Courses:
The work of the Honors section is aligned to the Regent’s level courses, but aims at a greater proficiency in skills, wider range in reading, and greater depth in understanding. Students are expected to perform at a faster pace, show greater levels of independence, and demonstrate greater skill in writing.

Sample Progression in Honors/Advanced Placement Pathway

Freshman year, English 9 Honors is intended to introduce students to the rigor and requirements of critical reading, analytical writing, independent research, and effective oral communication in Socratic forums, class discussions, and group presentations.

Sophomore year, English 10 Pre-AP covers the main periods of western literature. Students are expected to be able to read independently and analytically while looking at literature through multiple critical lenses.

Junior year, AP English Language and Composition is dedicated to the study of non-fiction texts, including essays, speeches, editorials, and memoirs, with an intensive focus on argumentative and persuasive writing.

Senior year, AP English Literature and Composition is dedicated to the study of imaginative literature, including novels, poetry, drama, and short fiction with an intensive focus on various modes of writing and critical analysis.

It is worth noting that AP Literature and AP Language make up a two-year program offering high school students the opportunity to earn up to six college credits per course. In order to achieve mastery of college-level literacy skills, it is strongly suggested that students take both AP courses, in either order, during their junior and senior years of high school. See full description of all courses below.

ENGLISH 9
0051 Full Year 1 Credit Grade 9
In this class, students will read both classic and contemporary texts that include dramas, novels, short stories and nonfiction pieces, developing their skills in annotating for comprehension and literary analysis, and discussing themes of heroism and empathy. Throughout the year, students will work on teamwork and communication through group work activities. A focus on argument-based writing will prepare students for their future regents work as well as subsequent English courses. Students will also begin to build their foundational knowledge in the research process and gain experience using our library databases and citation tools. Additionally, students will spark their love of literature through independently reading novels of their choice.

ENGLISH 9 HONORS
0050 Full Year 1 Credit Grade 9
This is an honors-level course where students will gain a rich and broad understanding of various genres including the epic, poetry, Greek and Shakespearean drama, novel, nonfiction, and short stories. Students will participate in group projects, formal presentations and Socratic seminars. In addition, students will conduct close readings on various texts, paying attention to strengthening their annotation skills. Writing will include both formal and informal pieces. Students will write literary analysis essays, creative ad narrative pieces, and conduct a research assignment. Students will examine core themes such as character, moral code, and the role of the hero by examining literature such as Antigone, To Kill a Mockingbird, Romeo and Juliet, 1984 and Fahrenheit 451. It is strongly encouraged that students enrolled in this course have a love of reading and a desire to improve their writing.

Required: Completion of Summer Assignment

ENGLISH 10
0041 Full Year 1 Credit Grade 10
Students will explore literary selections representing various cultures and traditions. Students will engage with such classic fiction works like Golding’s novel, Lord of the Flies and non-fiction works like Weisel’s memoir, Night. Research skills will be an intricate component of the curriculum. Students will closely read and annotate texts of multiple forms. Students will write literary essays and informal responses. Students will also have testing situations that are designed to prepare them for the Common Core English Regents Examination. Students will also be engaged in a variety of activities designed to meet New York State Core Standards.
ENGLISH 10 (PRE-AP)
0040  Full Year  1 Credit  Grade 10
English 10 Pre-AP is designed to prepare sophomores for success in AP English Literature and composition and in AP English Language and Composition as juniors and seniors. The curriculum provides a comprehensive introduction to western literary traditions with a focus on the epic hero, rhetoric and argument, classical Greek drama, the origins of the English language, Renaissance poetry and drama, Enlightenment philosophy, the British novel and independent research. Students will be challenged to read critically and analytically and write with sophistication and an awareness of audience and purpose. A student who is a good candidate for this course is academically motivated, intellectually curious, reads avidly and independently, and exhibits a notable mastery of written expression.
Recommended Preparation: Exemplary completion of English 9 or English 9 Honors. Student is expected to be an adept independent reader and writer and participant in class. Required: Completion of Summer Assignment.

ENGLISH 11
0031  Full Year  1 Credit  Grade 11
Extensive student writing and an in-depth exploration of American literature are the foundations of this course. Students will engage in close reading through various mediums with a focus on understanding argument and purpose. They will participate in sustained collaborative communities and project-based learning. Students will gain independence in the research process through the completion of an Annotated Bibliography. They also will refine their digital, written, and verbal communication skills. This course addresses NYS Common Core Standards and the curriculum aligns to the Saratoga Springs City School District’s Mission and Vision Statement. Students will take the Common Core Regents examination in English at the end of the course.

JOURNALISM AND MEDIA COMMUNICATIONS
0008  Full Year  1 Credit  Grades 11-12
Journalism, as a field of study, incorporates Interdisciplinary elements from Social Studies, Science, Art, Technology, and Business. Journalists practice critical thought and problem solving. At its core, the course requires intensive writing and reading as students train to become hyperlocal reporters. As students examine their lives and community through the lens of journalism, they actively and meaningfully explore social issues and the significance of adult citizenship.
This course is offered as an elective but cannot replace the Common Core English 11.

AP LANGUAGE AND COMPOSITION
0004  Full Year  1 Credit  Grade 11
This course is designed for strong juniors who would like to focus on the close reading of nonfiction and understand the way the rules of formal rhetoric work in reading and writing. In this course, students write in both informal and formal contexts to gain authority and learn to take risks in writing. As well as engaging in varied writing tasks, students become acquainted with a wide variety of prose styles from many disciplines and historical periods and gain understanding of the connections between writing and interpretive skill in reading. In addition, the informed use of research materials and the ability to synthesize varied sources (to evaluate, use and cite sources) are integral parts of the AP English Language and Composition course.
Recommended Preparation: Completion of English 10 Pre-AP. Required: Completion of a summer assignment.

AP LITERATURE AND COMPOSITION
0001  Full Year  1 Credit  Grade 12
This course is designed for highly-motivated seniors with strong skills in critical reading, literary analysis, and formal composition. Success in this course may allow students to earn college credit or advanced standing in undergraduate programs. The curriculum presents a rich variety of major and minor works dating from the English Renaissance to the present, including classic and contemporary poetry, a sampling of short stories, Victorian and Modern novels, and a Shakespearean tragedy. A formal research paper on Literary Criticism is required.
Recommended Preparation: Completion of AP Language and Composition. Required: Completion of a summer assignment.

ENGLISH AIS LAB
0753  Full Year  No Credit  Grades 9-10
This course is designed to assist those students who scored below average on the Grade 8 English/Language Arts examination or who did not satisfy all requirements of English Lab in a previous school year. AIS lab is focused on improving reading comprehension and writing skills. Students will practice reading comprehension strategies including identifying the main idea, context clues, inferences, and recognizing author style and techniques, especially literary devices necessary to develop detailed and cohesive written responses to Regents style statements.
English 12 Electives
The English department offers a unique opportunity for seniors to select at select an elective course that focus on a theme or genre. Each course provides a significant experience in reading, writing, speaking and listening, and works to prepare students for college and career readiness in alignment with the Common Core Reading and Writing standards. The English 12 courses will consist of the following: college essay and application unit, full-length research paper, college writing skills, collaborative group work and presentations. Students will read full-length novels, plays, memoirs and biographies.

SHAKESPEARE: TO SEE OR NOT TO SEE
0018 Full Year 1 Credit Grade 12
This course will examine various plays by William Shakespeare and their numerous film adaptations. Students will read plays and view different film adaptations of the plays, including musicals, romantic comedies, Westers, Bollywood, teen movies, and animated films. This course also focused on how these plays and films relate to our current society and how they can help us understand contemporary human interactions. Students will participate in creative writing, analysis, performance, and research projects. This course will prepare students for classes at higher levels.

This course was pending budget and Board approval at print time.

CRITICAL THINKING: AN EXAMINATION OF CONTROVERSIAL TOPICS IN OUR SOCIETY
0007 Full Year 1 Credit Grade 12
This course encourages development of critical thinking through scrutiny of a variety of global and national issues in society. Through the study of literature, both classic and contemporary, the deconstruction of nonfiction works, students will examine facts about controversial issues such as violence, economic justice, gender matters and free speech. Possible titles include but are not limited to: T.C. Boyle’s The Tortilla Curtain, Marcus Zusak’s I am the Messenger, Hillary Jordan’s When She Woke, Small Great Things by Jodi Picoult, and Margaret Atwood’s The Handmaid’s Tale. Current news and op-ed readings will be covered as well.

Developing student writing for reflection, research and persuasion will enable students to develop as citizens who take critical independent approaches to problems in our society and to explore ways, they can create positive change. This course involves both intensive reading and regular writing. As class discussions are held frequently, engaged participation is a key component to this course.

LITERATURE AND FILM
0014 Full Year 1 Credit Grade 12
This course encourages development of critical thinking through scrutiny of a variety of global and national issues in society. Through the study of literature, both classic and contemporary, the deconstruction of nonfiction works, students will examine facts about controversial issues such as violence, economic justice, gender matters and free speech. Possible titles include but are not limited to: T.C. Boyle’s The Tortilla Curtain, Marcus Zusak’s I am the Messenger, Hillary Jordan’s When She Woke, Small Great Things by Jodi Picoult, and Margaret Atwood’s The Handmaid’s Tale. Current news and op-ed readings will be covered as well.

Developing student writing for reflection, research and persuasion will enable students to develop as citizens who take critical independent approaches to problems in our society and to explore ways, they can create positive change. This course involves both intensive reading and regular writing. As class discussions are held frequently, engaged participation is a key component to this course.

CONTEMPORARY LITERATURE
0006 Full Year 1 Credit Grade 12
Contemporary Literature, for the purpose of this course, will be defined as literature written from 1960 to present. Students will examine fiction and non-fiction texts that have become bestsellers and some that have won prestigious literary awards. Students will read the works along with a review of these texts in order to examine how a book is “shaped” by the market and by the desires of the reading public. This course will provide high school students the opportunity to read popular fiction with timeless issues with contexts students find relevant. Besides the reading of the literature, students will be given both creative and critical writing assignments. Students may also participate in the community-based program Saratoga Reads. Students will read novels as a class as well as independently by genre.
THE ART OF WRITING
0016 Full Year 1 Credit Grade 12
Through the lens of their own writing projects, students will develop creativity and self-expression as well as college-level writing and literary analysis skills. From the stance of authors, students will close-read literature, examine techniques and apply them to their own writing. Students will read essays by writers in order to determine their own definition of what makes good writing. They will explore writing practice through writer essays, podcasts, TED talks, and other media. Students will also explore the conventions, challenges, and possibilities afforded by poetry, non-fiction, short stories, novels, plays, and screen Writings. Participation in writing workshops, self-reflection, and receiving teacher feedback will provide opportunities for individually paced growth as writers and active engagement in the process. Possible readings include On Writing by Stephen King, contemporary American poetry, flash fiction selections, Natalie Goldberg’s Writing Down the Bones, Mary Oliver’s The Poetry Handbook in addition to independent reading assignments. The Art of Writing is a course for a student hoping to discover the role creative writing plays in their life.

EXPLORING SCIENCE FICTION AND FANTASY LITERATURE
0015 Full Year 1 Credit Grade 12
Exploring Science Fiction and Fantasy Literature is a reading and writing intensive course that examines science fiction and fantasy across multiple media, including literature, film, television, comics, and games. Students will survey the history of science fiction and trace the way each creator has responded to changing social conditions. Students are expected to read and respond critically to a variety of texts in order to deepen their understanding of these genres and their broad cultural impact. Students can also expect a variety of engaging class discussions and writing activities. Possible titles include Ray Bradbury’s Fahrenheit 451, selections from J.K. Rowling’s Harry Potter series, Tolkien’s The Hobbit, H.G. Wells’ War of the Worlds, and Douglas Adams’ Hitchhiker’s Guide to the Galaxy.

RESEARCH CAPSTONE
This project-based course will involve intensive individual and collaborative research into an area of the humanities, including art, history, language, literature, music, philosophy, and religion. Focusing on the research process, writing, and presentation skills, students will delve into an area of individual interest related to the humanities. The human experience will be explored through fiction, literary nonfiction, primary sources, historical archives, discussions, guest lectures, and other library resources, placing it in the context of local, state, or national historical events. Students will access historical documents, learn about archival research, and can submit projects for the NYS Archives Student Research Awards. Content will focus on how to create a research strategy for finding, retrieving, using, and evaluating information in print and electronic formats. The culmination of this course is a publicly presented research project that students. Through this college composition course, students will have the opportunity to earn up to SIX college credits through SUNY Adirondack. There is a cost associated with the earning of college credit. Recommended: 85+ on the English Regents, per SUNY Adk
Family and Consumer Sciences
The Family and Consumer Science Department offers courses that provide students with real-world learning opportunities. The purpose of our program to help individuals become self-reliant, confident and caring in managing their personal, family and work lives. The Family Consumer and Science program is designed to meet the needs of students interested in developing the personal skills and acquiring the knowledge necessary for living independently and effectively; investigating careers in food and nutrition, such as dietetics and food science, and careers in human services and family studies, such as education, social work, counseling and psychology.

Graduation Requirements
Clothing, Textiles and Design and Housing and Interior Design may be used towards the Fine Arts Graduation requirement. A five-unit sequence in Family Consumer and Sciences may be used toward a Regents Diploma with Advanced Designation and those choosing this sequence may waive the foreign language requirement.

CLOTHING, TEXTILES & DESIGN
0561 1 Semester .5 Credit Grades 9-12
In this course, students will study clothing as it relates to culture, history, social and economic situations. Emphasis will be placed on clothing selection, construction, care and repair. The completion of several sewing and design projects will be required. This course, along with Housing and Interior Design, satisfies the student’s fine arts graduation requirement.

HOUSING & INTERIOR DESIGN
0560 1 Semester .5 Credit Grades 9-12
In this course, students will study housing styles and the techniques used to design home spaces. Architectural elements, color schemes, window treatments, and furniture styles and arrangements are included in the course content. Students will be responsible for completing individual projects, such as a design storyboard for a specific room from color to furniture and accessories. This course, along with Clothing, Textiles and Design, satisfies the student’s fine arts graduation requirement.

RELATIONSHIPS
0562 1 Semester .5 Credit Grades 9-12
In this course, students will investigate the dynamics of various types of relationships. Both creative and rational approaches to decision-making and problem solving will be explored. Students will focus on their personal identity, how they relate to others and improving self-esteem. Parent permission may be required to attend class discussions about human sexuality.

INDEPENDENT LIVING
0565 1 Semester .5 Credit Grades 9-12
In this course, students will identify the challenges of adolescents as they assume adult roles and responsibilities. Opportunities will be provided for students to explore future trends and important decisions. This course requires students to practice and show competence in leadership and financial management skills through guest speakers and field trips for successful living in today’s world.

EARLY CHILDHOOD GROWTH & DEVELOPMENT
0563 1 Semester .5 Credit Grades 9-12
Students in this course will take a basic knowledge of the social, emotional, physical and intellectual elements of child development to a new level. They will analyze, synthesize and evaluate Age appropriate activities for young children through age five. Students will apply their classroom learning in a clinical setting, cooperating with the Head Start Program on the high school campus. Career potential and possibilities will be part of ongoing discussions through research and guest speakers in this class.

COLLEGE CHILD DEVELOPMENT & PSYCHOLOGY
0566 Full Year 1 Credit Grades 11-12
Extensive research will be required of students as they study children growing and developing from the prenatal period through adolescence. Topics of interest will include physical, emotional, social and cognitive stages that children experience as they mature. Students will be asked to complete in-depth studies and relate the theories of brain research to behavior and growth. There will be practical applications to textbook learning as students complete an internship with preschool children and student teach elementary school children. The 30 hours of required field experience outside of the classroom will help students as they prepare a portfolio filled with original research and lesson plans. Career potential and college programs will be discussed throughout the year with assistance from guest presenters.

(College Credit: SUNY Cobleskill. Fee required for college credit. Student must earn an 85 or better to earn 3 college credits. Student may opt to take the course for only high school credit)
FOODS AND NUTRITION
0564  1 Semester  .5 Credit  Grades 9-12
Student understanding of sound nutritional concepts and
economics will be studied throughout this fun and exciting
course. Food preparation, production, and science will be
explored within the kitchen laboratory environment.
Various cultures will be discussed while culinary arts are
employed. Careers will be focused on through learning units
with personal research and the assistance of guest
presenters.

COLLEGE NUTRITION & CULINARY ARTS
(College in the High School Program)
0567  Full Year  1 Credit  Grades 11-12
Students will learn to relate the concepts of human
nutrition, diet and exercise to good health and fitness. The
content of this course includes examining the role of
nutrients in the body, diet related conditions, special diets,
diet analysis, nutrition for athletes, lifetime fitness and the
effect of food preparation techniques on the diet. Students
will identify and prepare foods from various countries
around the world while examining the conditions which
effect availability and quality of food in the global market.
A capstone project similar to the “Chopped” Food
Network Show will be the grand finale of the culinary
experience that students will gain. This course allows
students to earn college credit through SUNY Cobleskill.
(College Credit: SUNY Cobleskill. Fee required for college credit.
Student must earn an 85 or better to earn the 3 college credits. Student
may opt to take the course for only high school credit)
Mathematics
The Mathematics Department offers preparation in the concepts and skills necessary for competence in mathematics, as well as preparation for further study. All courses in mathematics increase understanding of the basic concepts of mathematics and problem solving.

Graduation Requirements
All students are required to earn three (3) units of credits in high school mathematics in order to graduate. Students must meet the New York State requirement by passing the Algebra I Regents examination. Students must be enrolled in a math course from grades 9-11. No student may drop a math course altogether (without enrolling in another) unless they have successfully completed the minimum graduation requirement of 3-years/3 credits.

Sample Mathematics Progressions

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<tr>
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<tbody>
<tr>
<td>Regents Math</td>
<td>Algebra 1</td>
<td>Geometry</td>
<td>Algebra 2</td>
<td>Pre-Calculus Honors or Pre-Calculus and Advanced Topics</td>
</tr>
<tr>
<td>Pre-Algebra</td>
<td>Algebra 1 w/lab</td>
<td>Geometry w/lab</td>
<td>Topics in Algebra 2</td>
<td>Algebra 2 or AP Statistics</td>
</tr>
<tr>
<td>Pre-Algebra</td>
<td>Algebra 1 w/lab</td>
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<td>Algebra 2</td>
<td>Pre-Calculus and Adv. Topics or AP Statistics</td>
</tr>
<tr>
<td>Honors Math</td>
<td>Geometry Honors</td>
<td>Algebra 2 Honors</td>
<td>Pre-Calculus Honors</td>
<td>AP Calculus AB or AP Calculus BC or AP Statistics or Calculus</td>
</tr>
</tbody>
</table>

MATH ACADEMIC INTERVENTION SERVICES (AIS)
0756 Full Year No Credit Grade 9-11
This course is designed to assist those students who scored below the state-mandated level of proficiency on the Grade 8 NYS Assessment Test and/or students who have not passed or are in danger of not passing the Algebra I Regents exam. This mandated course analyzes the strengths and weaknesses of each student and remedies them with the goal of passing the Algebra I Common Core Regents exam which is a graduation requirement.

PRE-ALGEBRA
0237 Full Year 1 Credit Grade 9
This course is designed to help students who have traditionally struggled with mathematics and would like to strengthen their skills before enrolling in Algebra I. Major focus will be on the properties of real numbers, fractions, rational numbers and equations, ratio, proportion and linear functions. There will be a local final exam.
Prerequisite: Math 8

ALGEBRA I
0230 Full Year 1 Credit Grade 9
This course addresses the curriculum outlined by the Common Core State Standards. Topics that are emphasized include performing arithmetic operations on polynomials, creating equations that describe numbers or relationships, solving equations and inequalities in one variable, solving and representing equations and inequalities graphically, functions and function notation, interpreting functions that arise in applications, and the TI-84+C Silver Edition is the preferred model. Students will sit for the Algebra I Regents exam in June.

ALGEBRA I WITH LAB
0231 Full Year 1 Credit Grade 9-10
This course is designed to cover the Algebra I Common Core curriculum with extra time built into the schedule to allow for further practice, activities and the strengthening of math skills. A graphing calculator is required for this course and the recommended model is the TI-84+C Silver Edition. Students will sit for the Algebra I Common Core Regents exam in June.
GEOMETRY

0225  Full Year   1 Credit   Grade 10
This course addresses the curriculum outlines by the Common Core State Standards. Topics that are emphasized include proving geometric theorems, congruency, similarity, trigonometric ratios and solving problems involving right triangles, coordinate geometry, and applying geometric concepts in modeling situations. A graphing calculator is required and the TI-84+C Silver Edition is the preferred model. Students will sit for the Geometry Common Core Regents exam in June.
Recommended Preparation: Algebra 1 or Algebra 1 with Lab

GEOMETRY WITH LAB

0222  Full Year   1 Credit   Grade 10
This course is designed to cover the Geometry Common Core curriculum with extra time built into the schedule to allow for further practice, activities and the strengthening of math skills. A graphing calculator is required for this course and the recommended model is the TI-84+C Silver Edition. Students will sit for the Geometry Regents in June.
Recommended Preparation: Algebra 1 or Algebra 1 with Lab

GEOMETRY HONORS

0224  Full Year   1 Credit   Grades 9-10
This course of study outlined in Geometry will be enriched to include more extensive/rigorous proof and applications. This course is for students who excel in Math and Science, and who plan to pursue further study in Math, Science and/or Technology. A graphing calculator is required. The preferred model is the TI-84+C Silver Edition. Students will sit for the Geometry Common Core Regents exam in June.
Recommended Preparation: Algebra 1 with a 90+ average

PRE-CALCULUS AND ADVANCED TOPICS

0256  Full Year   1 Credit   Grades 11-12
This course is a continuation of the Common Core instruction with a fourth high school year of Common Core material. This course will continue to build on material presented in the prior years while adding topics not yet covered. This course will give students who may struggle with the rigor of a true Pre-calculus course an Algebra option that is aligned with the Common Core. Colleges are looking for students with a strong algebra foundation. This course will be essential in providing seniors access to another algebra option which will give those seniors an advantage as they enter college.
Recommended Preparation: Algebra 2

FINANCIAL ALGEBRA

0250  Full Year   1 Credit   Grades 11-12
Each lesson in this course is aligned to a minimum of one Common Core State Standard in mathematics. Sample topics of study include the stock market, modeling a business, banking services, consumer credit and automobile ownership. Algebra I skills are reinforced throughout the curriculum. This course is a technology-dependent, project based and applications-oriented curriculum. TI-84+C Silver Edition graphing calculator is preferred and there is a local final exam or project.
Recommended Preparation: Two credits of High School Math

TOPICS IN ALGEBRA 2

0208  Full Year   1 Credit   Grades 11-12
This course satisfies the required third year of mathematics and is recommended for those students who experienced difficulties in Geometry and/or Algebra I. Topics include the studying of Quadratic functions, imaginary and complex numbers, rational exponents, rational equations, regression analysis, along with polynomial, exponential, logarithmic, absolute value and radical functions.
Recommended Preparation: Geometry or Geometry with Lab; This course does not culminate in the Algebra 2 Regents Exam

ALGEBRA 2

0214  Full Year   1 Credit   Grade 10-12
This is the capstone course in the three-year sequence towards the Regents Diploma with Advanced Designation. This course expands on many of the topics and themes covered in Algebra 1 and Geometry. Topics include extending the study of linear, quadratic and exponential functions while honing the ability to model situations. This course also extends the solving of equations to include solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Students will also build on their previous work in trigonometry to build fluency with trigonometric ratios and to model using trigonometric functions. The course will also focus on statistics and analysis. A graphing calculator is required, and the recommended model is the TI-84+C Silver Edition. The final exam will be the Algebra II Regents exam.
Recommended Preparation: Geometry.
ALGEBRA 2 HONORS
0213 Full Year 1 Credit Grades 10-11
This course is more challenging than Algebra II and is designed for students who excel in Math and Science, and who plan to pursue further study in Math, Science and/or Technology. Topics include those of Algebra II but will be enriched to include more extensive study and applications. A graphing calculator is required, and the recommended model is the TI-84+C Silver Edition. The final exam will be the Algebra II Regents exam.

Recommended Preparation: Geometry with an average of 90+ or Geometry Honors with an 85+ average.

PRE-CALCULUS HONORS
0206 Full Year 1 Credit Grade 11-12
This course is designed to prepare students for AP Calculus AB or AP Calculus BC. It is recommended for college-bound students who are considering studying engineering, science, computer science, mathematics. Topics of study include polynomial, rational, exponential, logarithmic, and trigonometric functions, analytic geometry, analytic trigonometry, matrices, sequence and series, and limits. A graphing calculator is required. The recommended model is the TI-84+C Silver Edition.

Recommended Preparation: Algebra II or Algebra II Honors

AP CALCULUS AB
0201 Full Year 1 Credit Grade 12
This college level course in calculus is designed to prepare students for the Advanced Placement Calculus exam in May. Colleges may grant credit or advanced standing depending on the AP exam score. The content involves differential and integral calculus including limits, continuity and derivatives of implicit and explicit algebraic, trigonometric and logarithmic functions. Applications of the N derivative and integral include curve sketching, area under a curve and volume. Students are required to have a graphing calculator. The recommended model is the TI-84+C Silver Edition. Students are required to take the AP exam in May and will be responsible for the entrance fee. There will be a local final exam.

Recommended Preparation: Pre-Calculus or concurrent Pre-Calculus. AP Calculus placement should be made with input from your current Math teacher.

CALCULUS
0202 Full Year 1 Credit Grades 11-12
This course provides substantial instruction in differential and integral calculus with applications to add meaning. Topics include analytic geometry review, limits, differential and integral calculus and applications. A graphing calculator is required. The recommended model is TI-84+C Silver Edition. There will be a local final exam.

Prerequisite: Pre-Calculus (with a recommended 85+ average)

AP CALCULUS BC
0200 Full Year 1 Credit Grade 12
AP Calculus BC is considerably more extensive than AP Calculus AB. Topics include differentiation, applications of the derivatives, the definite integral, transcendental functions, techniques of integration, applications of a definite integral, geometry in the plane, sequences and series and elementary differential equations. Success in this course requires advanced mathematics skills and extra preparation. Students are required to have a graphing calculator. The recommended model is the TI-84+C Silver Edition. Students are required to take the AP exam in May and will be responsible for entrance fees. There will be a local final exam.

Recommended Preparation Pre-Calculus AB/BC. AP Calculus placement should be made with input from your current Math teacher.

AP STATISTICS
0203 Full Year 1 Credit Grades 11-12
AP Statistics is equivalent to a one-semester introductory college statistics course. Students will concentrate their study on four broad conceptual themes: (1) Exploring Data: Describing patterns and departures from patterns, (2) Sampling and Experimentation: Planning and conducting a study, (3) Anticipating Patterns: Exploring random phenomena using probability and simulation, (4) Statistical Inference: Estimating population parameters and testing hypotheses. Students are required to have a graphing calculator and the recommended model is the TI-84+C Silver Edition. Students are required to take the AP exam in May and will be responsible for entrance fees. There will be a local final exam.

Recommended Preparation: Algebra II.

FOUNDATIONS FOR HIGHER MATHEMATICS
0205 Full Year 1 Credit Grades 10-12
This course is designed to help students who have passed Algebra I but struggle with the material and would like to strengthen their skills prior to taking a geometry course. The curriculum is divided into topics that include algebra, introductory geometry and consumer mathematic topics. This is a project-based and applications-oriented course. A graphing calculator is required for this course and the recommended model is the TI-84+C Silver Edition.

Required Preparation: Algebra I

Calculators

Graphing calculators are required on the New York State Regents examinations in Algebra I, Geometry, and Algebra 2, as well as all Advanced Placement examinations. The TI-84 (Plus or Plus Silver Edition) is recommended for student use. The TI-84 will be used for classroom demonstrations.
Music Department
The music program provides students the opportunity to find a richer life by guiding them to a better understanding of music. There are courses for students who are interested and skilled in vocal or instrumental performance and wish to concentrate in these areas. Students who are not performing musicians, however, but wish to learn more about music, will find valuable courses in Music I University and AP Music Theory.

Graduation Requirements
To fulfill graduation requirements, all students must complete at least one (1) unit in music or art to earn a Regents Diploma. Foundation level courses include: Concert Band, Concert Orchestra, and Concert Choir.

Pathways for prospective Music students
Since most music schools require an audition, (one which includes performing either vocally or instrumentally as well as sight-singing and theory), courses such as Music I University, AP Music Theory and Performing Ensembles are recommended.

Sample Music Progressions

<table>
<thead>
<tr>
<th>Program</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band Progression</td>
<td>Concert Band or Symphonic Band</td>
<td>Concert Band or Symphonic Band</td>
<td>Concurrent Band Electives: Symphonic Band and Jazz Band</td>
<td>Concurrent Band Electives: Symphonic Band Jazz Band Music Theory I AP Music Theory</td>
</tr>
<tr>
<td>Orchestra Progression</td>
<td>Concert Orchestra or Chamber Orchestra or Symphonic Orchestra</td>
<td>Concert Orchestra or Chamber Orchestra or Symphonic Orchestra</td>
<td>Concurrent Band Electives: Chamber Orchestra or Symphonic Orchestra Music Theory I or AP Music Theory</td>
<td>Concurrent Band Electives: Chamber Orchestra Symphonic Orchestra Music Theory I or AP Music Theory</td>
</tr>
<tr>
<td>Chorus Progression</td>
<td>Concert Chorus or Mixed Chorus or Choraliers</td>
<td>Concert Chorus or Mixed Chorus or Choraliers</td>
<td>Concert Chorus or Mixed Chorus or Choraliers</td>
<td>Concert Chorus or Mixed Chorus or Choraliers Music Theory I or AP Music Theory</td>
</tr>
<tr>
<td>General Music Progression</td>
<td>Music In Our Lives</td>
<td>MID</td>
<td>Music Theory I</td>
<td>Music Theory I or AP Music Theory</td>
</tr>
</tbody>
</table>

MUSIC IN OUR LIVES
0604 Full Year 1 Credit Grades 9-12
A culmination of the general music program of studies K-8. Students will be listening, performing, composing, and using basic music skills to permit musical involvement. Students will be required to study the keyboard, guitar and midi sequencing.
This course can be used to fulfill the Fine Art requirement.

MUSIC I
(University in the High School)
0602 Full Year 1 Credit Grades 10-12
This course is offered for music majors and for students who want to “test out” a career related to music. It is a course in the fundamentals of music such as melody, keys, scales, rhythm, harmony, and the study of chords. In addition, writing, ear-training, and music literature will be studied. Students in this course should have more music background than just Music in Our Lives. Good candidates are students in a performing group or students that play piano or guitar and have studies with a teacher. College credits offered through the University at Albany may be received upon completion of this course for a fee.
Prerequisite: Teacher Recommended. Prior music reading experience is recommended. College Credit: University at Albany. Fee required for college credit. Student may opt to take the course for only high school credit.

AP MUSIC THEORY
0600 Full Year 1 Credit Grades 11-12
Designed for music majors. A continuation of the study of harmony with concentration in modulation, altered chords, and creative composition. In addition, writing, ear-training, and music literature will be studied. University credit or AP credit may be earned.
Prerequisite: Music I University.

CONCERT CHOIR
0623 Full Year 1 Credit Grade 9-12
Concert Choir is a treble voice choral ensemble. Students in Concert Choir will learn proper vocal techniques, music reading skills, breath control, and overall poise and confidence in their singing ability, while learning music from many different time periods and cultures. Each chorus member is expected to participate fully in class. Activities: NYSSMA Solo Evaluations for students that choose to participate.
MIXED CHORUS
0622 Full Year 1 Credit Grades 9-12
Students in Mixed Chorus will learn proper vocal techniques, music reading skills, breathe control, and overall poise and confidence in their singing ability, while performing music from many different time periods and cultures. Each chorus member is expected to participate in all scheduled concerts for the school. Activities may also include NYSSMA Solo Evaluations for students that choose to participate.
Prerequisite: Music Teacher Recommendation

CHORALIERS
0620 Full Year 1 Credit Grades 9-12
Choraliers is an audition only ensemble. Students in Choraliers will learn proper vocal techniques, advanced music reading skills, breath control, and overall poise and confidence in their singing ability, while performing music from many different time periods and cultures. Each chorus member is expected to participate in all scheduled concerts for the school. Activities will also include NYSSMA evaluations, many performances in school and throughout the community and performance competition trips. Grades 9-12 Tenors & Basses: Grades 10-12 Sopranos & Altos. Prerequisite: Audition and teacher recommendation.

CONCERT ORCHESTRA
0615 Full Year 1 Credit Grades 9-12
Organization open to instrumentalists with the proper qualifications and with the recommendation of the conductor. The program includes performing in concerts, working on music projects, and lessons.
Prerequisite: Admission is by audition and/or invitation by the teacher

SYMPHONIC ORCHESTRA
0614 Full Year 1 Credit Grades 10-12
Organization open to instrumentalists with the proper qualifications and with the recommendation of the conductor. The program includes performing in concerts, working on music projects, and lessons.
Prerequisite: Admission is by audition and/or invitation by the teacher

CHAMBER ORCHESTRA
0612 Full Year 1 Credit Grades 9-12
Chamber Orchestra challenges the advanced student with outstanding and demanding literature. Acceptance into the ensemble is contingent upon successful audition. Balanced instrumentation of the ensemble dictates the number of students accepted.
Prerequisite: Admission is by audition and/or invitation by the teacher

MIDI STUDIO
0605 1 Semester .5 Credit Grades 10-12
Students will study the various processes and procedures used to record and edit music using a computer. Topics will include digital recording, MIDI sequencing, sound design, loops, and signal processing. Students will be able to actively apply the technology to enable themselves to use similar equipment in their home studio, or a professional recording studio. Knowledge of chords and basic music theory is helpful.
Prerequisite: One unit of any High School Music Course

SYMPHONIC BAND
0608 Full Year 1 Credit Grades 9-12
Students will be involved in performing band literature of all styles. Acceptance into the ensemble will be contingent upon a successful audition. Instrumentation of the ensemble will dictate the number of students accepted into this course.
Prerequisite: Admission is by audition and/or invitation by the teacher

CONCERT BAND
0609 Full Year 1 Credit Grades 9-12
Organization open to instrumentalists with the proper qualifications and with the recommendation of the conductor. The program includes school concerts and group lessons which rotate throughout the day.

JAZZ ENSEMBLE
0606 Full Year 1 Credit Grades 9-12
Students will be involved in performing music of the jazz and contemporary idiom. Aspects of performance such as style, articulation, and rhythmic interpretation (history, theory, and improvisation) will be covered and demonstrated. The concert jazz band will perform at school and community concerts as well as at various jazz festivals. Acceptance into the ensemble will be contingent upon a successful audition. Instrumentation of the concert Jazz Band will dictate the number of students accepted into this course.
Prerequisite: Admission is by audition and/or invitation by the teacher
Physical Education and Health Department

Physical Education is a New York State mandated course requirement. Students must successfully complete eight (8) semesters during their high school, the equivalent of two (2) credits.

The Physical Education curriculum provides instruction in the following types of activities in enough variety to meet individual pupil capacities, interests, and needs. Students will be engaged in activities which include; body mechanics, team sports, rhythms and dance, games, conditioning activities, fitness testing, and/or adventure programming.

PHYSICAL EDUCATION
0660/0661/0663/0664 .5 Credit Grades 9-12
To receive a high school diploma, a pupil in grades 9-12 must satisfactorily complete the Physical Education requirements as determined by the State of New York. A pupil is required to participate in Physical Education each of the four years he/she is in school prior to graduation.

HEALTH
0670 1 Semester .5 Credit Grades 10-12
Health is a mandated New York State course required of all students for graduation. Health Education is designed to help students gain skills that are necessary to remain safe and healthy throughout their lives. Students will experience skill building in communication, relationship management, decision making, planning and goal setting, stress management, advocacy, and self-management. Topics will include physical activity and nutrition, disordered eating, addiction, alcohol, tobacco and other drugs, as well as contraception and sexually transmitted diseases curriculum which includes prevention lessons.
Science Department

Students are required to successfully complete three units and one Regents exam in Science to graduate with a Regents Diploma. Of the three units, one must be from the Biology (Living Environment) curriculum and one from the Physical Setting. Students in pursuit of a Regents Diploma with Advanced Designation are required to pass two Regents Exams (one Physical Science and one Life Science).

**Sample Science Progressions**

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<tbody>
<tr>
<td>Regents Science</td>
<td>Earth Science or Biology</td>
<td>Biology Regents or Earth Science</td>
<td>Chemistry Regents</td>
<td>Physics Regents</td>
</tr>
<tr>
<td>Accel. Honors Science</td>
<td>Biology Honors or Earth Science</td>
<td>Biology Honors or Chemistry Honors</td>
<td>Chemistry Honors or Physics or AP Physics 1 or AP Physics 1-2</td>
<td>AP Physics C or AP Biology or AP Chemistry or Enviro. Science College</td>
</tr>
</tbody>
</table>

**EARTH SCIENCE R**

0344 Full Year 1 Credit Grade 9-10

Regents Earth Science follows the New York State Core Physical Setting/Earth Science Curriculum. This is a laboratory-centered course designed to introduce students to the four sciences that make up earth science: meteorology, geology, astronomy, and oceanography. The course provides an understanding of climate, the space program, natural resources, and weather while providing background knowledge with laboratory experiences which enables students to be successful in future science studies, including chemistry and physics.

**BIOLOGY R**

0331 Full Year 1 Credit Grades 9-11

Regents Biology follows the New York State Core Living Environment curriculum. Emphasis is placed on scientific inquiry, testing and analyzing proposed explanations using conventional and invented methods, examining similarities and differences among living things, reproduction and development, the basic unit of life, physiology, classification, ecology, genetics, biochemistry, and evolution. This course has a mandatory lab requirement. Students will take the Living Environment/Biology Regents Examination in June.

**BIOLOGY HONORS**

0330 Full Year 1 Credit Grades 9-10

Honors Biology covers the New York State Core Living Environment Curriculum as well as various enrichment topics. Instruction centers on deeper, more rigorous science principles with demand and intensity at the college level. Students are expected to be independent readers and learners of the basic concepts related to this course. Students enrolling in this course should work well independently and have experienced high achievement in past science courses without depending on rote learning or tutoring. Students will take the Living Environment Regents Examination in June. *Recommended: Students are recommended to take the SAT Subject Test in Biology.*

**AP BIOLOGY**

0303 Full Year 1 Credit Grade 12

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions. An independent study component in the area of ecology is required. Students will be expected to pay the cost of the laboratory manual. Students are required to take the AP exam in May and will be responsible for the exam fee. A summer assignment is required. *Recommended Preparation: Earth Science, Biology, Chemistry, and Physics.*

**PRINCIPLES OF CHEMISTRY**

0319 Full Year 1 Credit Grades 10-12

Principles of Chemistry is a full year non-regents level chemistry course designed to provide a more project and problem-based learning approach to chemistry that is aligned to NGSS standards. Students will be exposed to a rich chemistry curriculum with the intent of preparing them for future science instruction in college. In addition to data collection and analysis, this course will provide opportunities for enhancing the soft skills which students so desperately need, including writing supporting statements and improving overall scientific literacy.
CHEMISTRY R
0321 Full Year 1 Credit Grades 10-12
Regents Chemistry follows the New York State Core Physical Setting/Chemistry Curriculum and is generally recommended for students planning on attending a four-year college. Topics of study include matter, energy, atomic and molecular structure, the periodic table, bonding, kinetics, equilibrium, acid/base theory, organic, and nuclear chemistry. This course is theoretical, abstract and quantitative. Students will collect, organize, and analyze data. They will be required to complete 1200 lab minutes in order to take the mandatory Chemistry Regents examination in June. It is recommended that student have a scientific (non-graphing) calculator.
Recommended preparation: completion of Biology, Earth Science and Geometry.

CHEMISTRY HONORS
0320 Full Year 1 Credit Grades 10-11
Honors Chemistry follows the New York State Core Physical Setting/Chemistry Curriculum, as well as various enrichment topics. Instruction centers on deeper, more rigorous science principles with demand and intensity at the college level. Students are expected to be independent readers and learners of basic concepts related to this course. Students are recommended to take the SAT Subject Test in Chemistry, which has an associated fee. Purchase of a review book is recommended to supplement independent study.
Recommended Preparation: Successful completion of Biology Honors, Geometry Honors, Algebra 2 Honors or concurrent enrollment.

AP CHEMISTRY
0302 Full Year 1 Credit Grade 12
AP Chemistry is designed to be a college course that integrates introductory Regents level work with college level requirements. It is intended for the student who has gone beyond the memorization of facts and has developed skills of logic and persistence needed to understand the mathematics and models of chemistry. In addition to the topics listed for Regents Chemistry, the course includes such topics as crystal lattices, rate laws, solubility equilibria, and titration of buffered solutions. Students will simultaneously complete Regents and college level assignments in order to be adequately prepared for the AP exam given in May. Students will be expected to pay the lab fee as well as the cost of the laboratory manual and scientific calculator. Summer assignment will be required and assessed on the first day of school.
Recommended Preparation: Earth Science, Biology Honors, Chemistry Honors, Physics, and Math (honors) courses.

Pathways for Physics
When considering which AP Physics track you should pursue, be sure to consider your classes in the context of your intended college path. Physics 1 and 2 are suited for students intending to pursue life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science. These classes are also better suited to general interest or undetermined majors who want to establish their abilities in science-based coursework.

PHYSICS
0310 Full Year 1 Credit Grades 11-12
Regents Physics follows the New York State Core Physical Setting/Physics Curriculum. Topics of study include mechanics, energy, electricity, magnetism, wave phenomena, and modern physics. This course emphasizes the meaning and implications of physical principles, as well as their mathematical treatment. Students will collect, organize and analyze data. This course is an introductory, algebra-based physics course, designed primarily for students who intend to pursue a four-year college degree.
Successful completion of this course requires a strong background in geometry and algebra 2 concepts.
Recommended Preparation: completion of Chemistry, Algebra 2 or concurrent enrollment in Pre-calculus. Strong background in Math is critical in this course.

AP PHYSICS 1 (Accelerated)
0306 Full Year 1 Credit Grades 11-12
The AP Physics 1 course is the equivalent of a first-semester, algebra-based college physics course. It is the most introductory of the AP Physics options and it covers Newtonian mechanics (including rotational motion), work, energy, power, mechanical waves and sound, and introductory, simple circuits. In addition to material covered on the AP Physics 1 Exam in May, the course will cover static electricity; magnetism; light; and atomic and nuclear physics. These concepts are covered on the NYS Regents Exam, which serves as the final exam for this course.
Recommended Preparation: completion of Chemistry Honors and completion of Pre-Calculus or AP Mathematics or concurrent enrollment.
AP PHYSICS 1-2
0305 Full Year 1 Credit Grades 11-12
The AP Physics 1-2 course is the equivalent of a first and second-semester, algebra-based college physics course covering fluid statics and dynamics, thermodynamics with kinetic theory, PV diagrams and probability, electrostatics, electrical circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics, and quantum, atomic, and nuclear physics. Students will be responsible for a degree of independent learning outside of the classroom.
Recommended Preparation: Completion of Earth Science, Biology Honors, Chemistry Honors, and Math courses. Completion of Linear and 2-Dimensional Motion summer assignment.

AP PHYSICS C
0301 Full Year 1 Credit Grades 11-12
AP Physics C: Mechanics is the equivalent of a calculus-based first-semester college physics course. This class covers kinematics, Newton’s laws of motion, systems of particles and linear momentum, circular motion and rotation, oscillations and gravitation, and work, energy and power while using differential and integral calculus throughout the course. Physics C is appropriate for students planning to specialize or major in the physical sciences or pursue a career in engineering.
Recommended Preparation: completion of Earth Science, Biology Honors, Chemistry Honors, Physics, and Math courses

AP COMPUTER SCIENCE A
0304 Full Year 1 Credit Grades 11-12
Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. This course covers the following topics: object-oriented program design, program implementation, program analysis, standard data structures, standard algorithms, and computing in context. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

ASTRONOMY
0326 Full Year 1 Credit Grades 11-12
This course is designed to provide students with an understanding of the fundamental elements of astronomy. Study of the space program, solar system, stars, galaxies and universe will be enhanced by the involvement of NASA-based research and resources. Whether a student’s motivation to take the course to establish a firm foundation of knowledge for study in college or to foster a lifelong understanding of the sky, all levels of interest will be addressed.
Recommended Preparation: Completion of Earth Science and/or Biology.

NATURAL DISASTERS I: METEROROLOGY
0339 1 Semester .5 Credit Grades 11 -12
This course will investigate atmospheric related natural disasters, including hurricanes, tornadoes and other severe phenomenon. The impacts of these events on humans and the environment will be incorporated into study. Throughout this course, students will read about, conduct research, design and complete laboratory activities and be involved in projects designed around these catastrophic events (using both a current and a historical perspective).
Recommended Preparation: completion of Earth Science.

NATURAL DISASTERS II: GEOLOGY
0340 1 Semester .5 Credit Grades 11 -12
Major geologic natural disasters, including earthquakes, tsunamis and volcanoes will be examined. The impact that these natural disasters pose to people and the environment will also be studied. Students will be involved in problem-solving techniques and assignments using scientific inquiry, research, and reading to develop a better understanding of these events (through current and historical perspectives).
Recommended Preparation: completion of Earth Science.

SCIENCE RESEARCH
(University in the High School)
0323-0325 3 Years 3 Credits Grades 10-12
The Science Research Class is an unmatched program that allows the student the opportunity to conduct scientific research, at the college level, through the establishment of a mentorship with a professional investigator. The student will conduct a research investigation and write their findings. Students in this course will have an opportunity to enroll in the University in the High School Program and can earn up to twelve (12) State University of New York Credits upon successful completion.
Prerequisite: Enrollment in the Science Research Program is based by the following: completion of grade 9, willingness to commit to the three-year program, problem solving and analytical abilities, work habits and career plans, and completion of a rigorous application and strict deadline. Students will be responsible for the college fees.

ENVIRONMENTAL SCIENCE
0342 Full Year 1 Credit Grades 11-12
This course is based on current issues in environmental science, such as: natural resource exploitation, impacts of climate change, human population growth, and pollution. Understanding chemical cycles, restoration ecology, and sustainable living practices will be necessary for exploring solutions to these environmental issues. The laboratory component of this course includes: water and soil quality analysis, measurements of biodiversity, forestry methods, and GIS modeling. Students will participate in the schools recycling program.
Recommended Preparation: Completion of Earth Science or Biology/Living Environment (minimum 2 credits in Science)
COLLEGE ENVIRONMENTAL SCIENCE
(College in the High School Program)
0346 Full Year  1 Credit  Grades 11-12
The survey of the origin and effects of crucial environmental problems. Scientific principles in treatment of such topics as population growth, resource depletion, industrial and municipal pollution, natural cycles of materials. This course fulfills the science requirement for non-science majors at most colleges. Students will participate in the schools recycling program and will complete a final project.
Recommended Preparation: completion of both Earth Science and Living Environment. College Credit: SUNY Adirondack. Fee required for college credit. Student must earn an 80% or better to receive Chemistry 105 credit. Student may opt to take the course for only high school credit.

FORENSIC SCIENCE
0349 Full Year  1 Credit  Grades 10-12
This is science course that will investigate a variety of topics in the field of forensic science. Students will explore areas including evidence collection, fingerprints, blood spatter, and time of death. Members of the class will develop an understanding of how forensic science works as well as how it can be applied to crime scenes through various case studies.
Recommended Preparation: Completion of Earth Science or Biology/Living Environment (minimum 2 credits in Science).
Social Studies
All students graduating from Saratoga Springs High School are required to complete a minimum of four (4) units of Social Studies and the Regents Examination in Global History and Geography or U.S. History and Government. Some students may choose to earn additional units by completing one or more Social Studies electives.

Graduation Requirements
4 Units including:

Sample Social Studies Progressions

Regents Progression

Global 9 ➔ Global 10 ➔ US History ➔ Participation in Government and Economics

Pre-AP/Advance Placement Progression

Global 9 ➔ Pre-AP History ➔ AP World History ➔ AP US History ➔ AP Macro or Public Policy in Modern America

GLOBAL HISTORY AND GEOGRAPHY 1
0132 Full Year 1 Credit Grade 9
This course is designed to provide students with a survey of Global History from prehistoric times through 1750. Students will study the major events, ideas and individuals that have shaped the course of our human history. Topics covered in this course include the Ancient World (prehistory – 500 CE), The Expanding Zones of Exchange and Encounter (500 – 1200 CE), and the First Global Age (1450 – 1750 CE). Global History 1 is required for graduation and is the first course in a two-year sequence that is completed in Global History 2.

PRE-AP WORLD HISTORY
0140 Full Year 1 Credit Grade 9
This course is an introduction to the Advanced Placement World History curriculum. Pre-AP World History is a rigorous, fast-paced, and challenging class for motivated academic students. In addition to the themes covered in Global History 1, students will examine the changes and continuities over time that have shaped historical periods. This course also explores historical developments by delving into comparisons between major societies. Interested students should anticipate college-level reading and writing assignments on a regular basis. There is also a research-based component to the class. Students who are successful in this course are encouraged to enroll in AP World History during their 10th grade year.
Prerequisite: Teacher recommendation and writing sample (determined at Middle School) Required: Completion of summer assignment

GLOBAL HISTORY AND GEOGRAPHY 2
0132 Full Year 1 Credit Grade 10
This course continues the examination of Global History from 1750 through the present. Students will explore the major events, ideas and personalities that have shaped the course of our human history. Topics include the growth of democracy, industry, revolutions, dictators, imperialism, nationalism, World Wars, and the Cold War. There is intensive study of the development of nations and conflicts from the end of World War II through the present. In addition, a thorough review of Global History 1 is included to prepare the students for the NYS Regents examination which covers both Global History 1 and this course. All students must pass this course as well as one Studies Regents examination in order to graduate.

AP WORLD HISTORY
0140 Full Year 1 Credit Grade 10
AP World History is a college level course designed to provide an intellectual challenge for students with advanced Social Studies reading, writing, and thinking skills. The primary intent of the AP World History course is to teach the history of the world from a global perspective. This approach places emphasis on worldwide historical processes and connections among human societies. The course will highlight the nature of changes and continuities over time and their causes and consequences, as well as comparisons among major societies. AP World History will begin with the Age of Global Interaction (1450-1750) and conclude with the present day. Students will receive instruction in the required skills comparison, contextualization, document analysis, interpretation, synthesis, point of view, historical argumentation, analysis and the evaluation of historical patterns of continuity and change over time. The course requires a significant time commitment for reading and preparation outside the class.
Prerequisite: Successful completion of Global 9 Pre-AP is recommended, but not required. Required: Summer reading and writing assignment.
U.S. HISTORY AND GOVERNMENT
0122 Full Year 1 Credit Grade 11
This course is designed to provide students with a survey of American History and Government from colonial times to the present. Topics covered in this course include exploration, colonization, revolution, government building, sectionalism, manifest destiny, the Civil War, industrialization, immigration, imperialism, the world wars, the Cold War, and contemporary American issues. All students must pass both the course and one Social Studies Regents examination in order to graduate.

ANCIENT CIVILIZATION
0108 1 Semester .5 Credit Grades 11-12
This course is designed to delve deeper into the history of the ancient world than is possible in a traditional Global History or Pre-AP World History course. Students will focus on the history and culture of ancient Sumer, Egypt, Greece, and Rome. The course is also designed to allow students to research areas of interest, such as the development of ancient religions or the society of the Vikings. Taught through seminars, field trips, and collaborative projects, this class is valuable for those students who are interested in an in-depth study of the ancient world.

AP U.S. HISTORY
0120 Full Year 1 Credit Grade 11
This course is designed to challenge the academic student in the area of American History. Students will study the history of the United States through a comprehensive chronological examination of the development of the nation’s political, economic, diplomatic, and social institutions from the colonial period to the present. Students should expect college level reading assignments in both primary and textbook formats, essay and survey paper writing, and various simulations and projects. All students in this course will also take the NYS Regents examination in American History and Government at the completion of the school year.
Required: A substantial summer reading and writing assignment.

PARTICIPATION IN GOVERNMENT
0102 1 Semester .5 Credit Grade 12
This course is a state-mandated graduation requirement which focuses on the formulation, decision-making, implementation, and evaluation of public policy at the federal, state, and local levels of government. Avenues of citizen participation will be explored, with attention to the roles of the media, political parties, interest groups, elections, and voting in the political process. In lieu of a final exam, students will be expected to complete a final project with academic and community-based requirements.

ECONOMICS
0104 1 Semester .5 Credit Grade 12
Students in this course will study the economic system of the United States and its operation. They will examine the economic interdependence of the world today and their role as workers, investors and voting citizens. Students will demonstrate a basic understanding of economic principles that will allow them to make informed decisions about our democracy and economy. Students must pass economics in order to graduate.

PUBLIC POLICY IN MODERN AMERICA
(University in the High School)
0114 1 Semester .5 Credit Grade 12
This class will be offered through a partnership with SUNY Albany, and will enable students to earn three college credits, as well as satisfy the mandated Participation in Government requirement. This course focuses on the history of four major domestic policies: welfare, civil rights, economic policy, and health policy. Students assess the relevance of history to current political debates and analysis of public policy. Furthermore, the course will be taught through the lens of current events. Group workshops and debates will enable students to engage in active learning while grappling with these larger questions. Seniors enrolled in Public Policy in Modern America are still required to take either Economics (half year) or AP Macroeconomics (full year).

AP ECONOMICS/PARTICIPATION IN GOVERNMENT
0100 Full Year 1 Credit Grade 12
AP Economics/Participation in Government is a yearlong course that provides the student with a complete understanding of the principles of economics and how these principles apply to an economic system in its entirety. To accomplish this, the curriculum places an emphasis on the study of national income and price determination. Also, the student will be expected to understand and use performance measures, economic growth, tools of fiscal and monetary policy and international economics in studying this course. The Participation in Government component will focus on the formulation, decision-making, implementation, and evaluation of public policy at all levels of government. Avenues of citizen participation will be explored, with attention to the roles of the media, political parties, interest groups, elections, and voting in the political process. Although the macroeconomics course has a heavy public policy content, this course will focus exclusively on government topics for the remainder of time after the AP macroeconomics exam in May. In lieu of a final exam, each student will complete a final project with academic and community-based requirements.
AP EUROPEAN HISTORY
0101 Full Year 1 Credit Grade 12
This senior elective class is designed to be a culminating course in the Advanced Placement history sequence. Students will study the history of Europe through a comprehensive examination of the political, socio-economic, diplomatic, and cultural developments that shaped the continent from 1450 to the present. AP European History represents a rigorous college-level survey course and is reflective of the most current shifts in history curricula at the undergraduate level. While there are no prerequisites for entry into this course, it is strongly recommended that motivated academic students enroll. Students in AP European History should expect college level reading, writing, and research assignments.

SOCIOLOGY
0110 1 Semester .5 Credit Grades 11-12
This is a skills-based course that utilizes primary source materials from professional journals, magazines, and daily publications. The framework of the course explores human and social interaction, behavioral patterns, and group influences. After an introductory unit on Sociology, the students will explore parenting and child development, the media’s influence on society, status in America, crime, the American family, and education. Student assessment will be through both group and individual projects in and out of class, field trips, essays and analysis of professional studies. This course is an excellent option for those students majoring in Social Studies.

PSYCHOLOGY
0107 1 Semester .5 Credit Grades 11-12
This course is designed to introduce the student to the study of human behavioral and mental processes. Focus areas will include major theoretical perspectives that predominate in modern psychology; such as research methods, the biological basis of behavior, different states of consciousness, learning and cognition, motivation and emotion, developmental psychology, and abnormal behavior. The student will learn to think analytically and improve critical thinking skills through case studies, simulations, interactive learning modules, professional journals and class discussion. This is a valuable course for a student who may be interested in pursuing a career in the field of psychology.

AP PSYCHOLOGY
0109 Full Year 1 Credit Grades 11-12
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Although there are no prerequisites for this course, AP Psychology is a rigorous college-level class that demands a high degree of interest on the part of enrolled students.

WAR AND DIPLOMACY I
0111 1 Semester .5 Credit Grades 11-12
This course is designed to go beyond the scope of a traditional history survey course in its study of war and its effect on civilization. There is a major emphasis on student activities, projects, and discussions related to relevant topics and issues. The focus will be on a study of the ethics, history, and impact of war on society using a variety of social, cultural and military resources. War and Diplomacy, I cover the period of 1776-1919.

WAR AND DIPLOMACY II
0112 1 Semester .5 Credit Grades 11-12
This is a course designed to go beyond the scope of a traditional history survey course in its study of war and its effect on civilization. There is a major emphasis on student activities, projects, and discussions related to relevant topics and issues. The focus will be on a study of the ethics, history, and impact of war on society using a variety of social, cultural, and military resources. War and Diplomacy II covers the period 1939 to the present.

SARATOGA SPRINGS HISTORY
0113 1 Semester .5 Credit Grade 11-12
This course provides students with an opportunity to study the history of their hometown in cooperation with the Historical Society of Saratoga Springs and other community-based organizations. The course will utilize group and individual projects, local field trips and guest speakers. Methods of study may include: how to do historical research, how to take an oral history, and how to use primary sources in historical context. Students will have the opportunity to do a hands-on study of local history and gain a better understanding of the history aspect of the city's slogan, “Health, History, Horses.”
Technology
This is a high school pre-engineering and engineering technology program. Students who enroll in the program are also expected to complete a college preparatory sequence of courses in mathematics. College credit may be applied for these courses. Any student expressing an interest in a single PLTW course out of sequence should demonstrate a strong math/science background and an aptitude for the selected course. Approval by the department head or instructor will then be necessary. See recommended PLTW sequence chart. Strong math/science background and an aptitude for subject are highly recommended for all PLTW classes.

Project Lead the Way (Pre-Engineering) Progressions (Sample)

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<tr>
<td>Design and Drawing for Production (PLTW)</td>
<td>Digital Electronics or Civil Engineering or Computer Integrated Manufacturing or Software Engineering or Environmental Sustainability</td>
<td>Principles of Engineering (plus any course not completed in 10th grade)</td>
<td>Engineering Design and Development</td>
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Biomedical Sciences
PLTW

Students who enroll in the program are expected to complete a college preparatory sequence of courses in Mathematics. College credit may be applied for these courses.

PLTW COURSES – TECHNOLOGY, SCIENCE AND MATH

DESIGN AND DRAWING FOR PRODUCTION (PLTW)
0490 Full Year 1 Credit Grades 9-12
This is an introductory course which develops student problem-solving skills, with emphasis placed on the development of three-dimensional solid models. The topics covered will include all the content of Design and Drawing for Production with the computer used in place of the traditional drafting board. Computer Aided Design (CAD) will also be used to analyze and evaluate the product design. DDP is a very beneficial course for any student pursuing a sequence in any technical field or engineering.

Can be used for Fine Arts credit

DIGITAL ELECTRONICS (PLTW)
0492 Full Year 1 Credit Grades 10-12
This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all electronic devices such as cellular phones, laptop computers, digital cameras, and high-definition televisions. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students are also exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. This course is designed for students exploring a career in engineering or engineering technology.

Prerequisite: Successful completion of Design & Drawing for Production.

CIVIL ENGINEERING / ARCHITECTURE (PLTW)
0496 Full Year 1 Credit Grades 10-12
Civil Engineering is the study of the built environment including the infrastructure of our transportation systems. Students will explore the construction of highways, bridges, tunnels, and other public works systems. Community planning and the application of zoning laws will be investigated. Architectural drawing will explore residential and commercial structures within their context to the built environment.

COMPUTER INTEGRATED MANUFACTURING (PLTW)
0493 Full Year 1 Credit Grades 10-12
This is a course that applies the principles of rapid prototyping robotics and automation. This course builds upon the computer solid modeling skills developed in Introduction of Engineering Design. Students will use computer-controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three-dimensional designs. Course topics include: evolution of automation, computer technology, sensors and actuators, CAC/CAM, computer integrated engineering.

Prerequisite: Successful completion of Design & Drawing for Production

SOFTWARE ENGINEERING (PLTW)
0498 Full Year 1 Credit Grades 10-12
The class will include four main units –Computer Science and Graphics, Web Design and Information Technology, Data Mining, and Software Engineering. Classroom activities will involve projects making Android applications on tablets, programming using Python, and game development using Scratch and Pygame. Web Design will use Word Press, PHP, and MySQL.

Prerequisite: Completion of Design & Drawing for Production PLTW.
PRINCIPLES OF ENGINEERING (PLTW)
0491 Full Year 1 Credit Grades 11-12
A challenging broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem-solving skills that are involved in post-secondary education programs and engineering careers. This course uses principles from Math and Science to solve engineering challenges.
Prerequisite: Completion of Design & Drawing for Production PLTW

BIOMEDICAL SCIENCES (PLTW)
0337 Full Year 1 Credit Grade 9-10
Principles of Biomedical Sciences is a full year introductory course which covers the study of human medicine, research processes and an introduction to bioinformatics. This course is designed for students interested in pursuing a career in the biological sciences, emergency services, healthcare or medicine. In this course, students investigate the human body systems and various health conditions. An on-going theme throughout the year is the analysis of various factors that led to the death of a fictional person. Students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The course culminates with a written exam and a project. Students need to be concurrently enrolled in a Regents Science class.

HUMAN BODY SYSTEMS (PLTW)
0341 Full Year 1 Credit Grade 9-10
The Human Body Systems (HBS) course is a PLTW course in which students will explore the systems of the human body, by designing experiments to investigate the structures and functions that allow the body to move, protect from disease and react to stimuli. Data software will be used to monitor various functions of the body such as reflexes, muscle movement and respiration. Students will play roles of biomedical professionals as they solve real world mysteries while playing the role of biomedical professionals.
Prerequisite: Completion of Biomedical Sciences.

ENVIRONMENTAL SUSTAINABILITY (PLTW)
0495 Full Year 1 Credit Grades 10-12
This course is designed for students to investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. Students will be able to apply and concurrently develop secondary-level knowledge and skills in biology, physics, technology, and mathematics.
Prerequisite: Student must have had successful completion of DDP PLTW and Biology

ENGINEERING DESIGN & DEVELOPMENT (PLTW)
0494 Full Year 1 Credit Grade 12
Engineering Design and Development is a project based independent study course that serves as a capstone of the Project Lead the Way curriculum for students that have completed most PLTW courses. Students develop the solution to a real-life problem and meet project and prototype requirements throughout the year. Their work is presented to a panel of engineers at the end of the year.
Recommended Preparation: A written proposal must be submitted to the teacher before acceptance into the course. Student must have had successful completion of Design and Drawing for Production PLTW, Digital Electronics, Principals of Engineering and at least one PLTW course for consideration.

COMPUTER SCIENCE ESSENTIALS (PLTW)
0207 1 Semester 1 Credit Grades 10-12
Computer Science Essentials (1-year course) will expose students to the fundamentals of computer programming and will focus on building computational thinking skills. In this class, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites and learn how to make computers work together to put their design into practice. They’ll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

CAREER AND TECHNICAL COURSES

DESIGN AND DRAWING FOR PRODUCTION (Not PLTW)
0474 Full Year 1 Credit Grades 9-12
This course teaches basic concepts and principles of technical drawing, projection, size description, pictorial representation, and similar processing techniques and tools. Students develop solutions to various design or product problems, and proposed solutions are researched, sketched, refined, and rendered as technical drawings. It is an excellent foundation for students wishing to take other technology courses. May be used for the Fine Arts Requirement

BASIC PRINCIPLES OF CONSTRUCTION
0460 Full Year 1 Credit Grades 9-12
This class introduces students to the field of construction and familiarizes them with building codes and safe material handling. The course provides thorough, up-to-date coverage of the core academic areas that are necessary for success in the construction field. Topics include work ethic, math, communications, print reading, safety, and common tools. Willingness to work with hands-on projects is a must.
CARPENTRY AND MASONRY
0461 Full Year 1 Credit Grades 10-12
Based on industry standards developed by the “National Association of Home Builders” and its “Home Builders Institute”, this course covers the essentials of residential construction carpentry, including tools and materials, rough carpentry, and exterior and interior finish carpentry ensuring professional success on any jobsite. “Procedure” sections in nearly every chapter combine precise, step-by-step instructions with helpful drawings, making it easy to understand key concepts and master important techniques. This course will also focus on modern residential masonry construction procedures, as well as current building and construction industry safety regulations relevant to the field. Prerequisite: Basic Principles of Construction.

ROBOTICS I: INTRODUCTION TO ROBOTICS
0462 1 Semester .5 Credit Grades 10-12
This course is designed to introduce students to some of the aspects of Robotics, Computer Science, Programming, and Electronics Engineering. Student will explore and discuss the many career opportunities available in all of these areas. The course includes opportunities to learn or refine computer programming skills using ROBOTC programming as well as practice skills in mechanics, engineering, and building using the VEX Robotics systems. Students will design build and program basic robots. Prerequisite: Design and Drawing for Production PLTW

ROBOTICS II: ADVANCED ROBOTICS
0463 1 Semester .5 Credit Grades 10-12
This course is designed to enhance and challenge students Robotics skill levels through the introduction of more sophisticated robot building and programming. Student will explore the use of more advanced computer programming skill such as functions, variables, and more advanced sensors. Students will also learn how to build and program with Arduinos as well as have opportunities to design, build and program a robot to compete in the following years Vex Robotics Challenge or partner with a local business to solve a real-world problem using their robotics skills. Prerequisite: Robotics I

MATERIALS PROCESSING - WOOD
0472 1 Semester .5 Credit Grades 9-12
A course providing a broad, generic view of the way humans convert materials. A study of various materials undergoing similar processing techniques, such as forming, separating, combining, and conditioning.

PRODUCTION SYSTEMS - WOOD
0486 1 Semester .5 Credit Grades 9-12
This course provides instruction on the systems of manufacturing and construction; their resources, processes; products and quality assurance; their impact on society, the economy, the environment and manufacturing. Students will design and produce a saleable product. A scale model or structure will also be constructed. Prerequisite: Material Processing – Wood

MISCELLANOUS COURSE OFFERINGS

INFORMATION TECHNOLOGY HELP DESK COURSE (Level 1, 2, 3 and 4)
0464 1 Semester .25 Credit Grades 10 –12
This course will give students real-world and professional experience in developing essential career skills through technology integration and support at the Saratoga Springs High School, as well as throughout the District. The course incorporates the ISTE (International Society for Technology Education) Standards for Students. Students will be required to think critically, and problem solve when assisting students, teachers, staff, parents, and community members with technical needs. Students will be required to complete self-paced research projects, culminating in a final product that will make an educational impact on the SSCSD community. Students will earn digital badges to demonstrate proficiency in their understanding of ISTE Standards for Students. These badges can be showcased for college applications and entering the workforce.

ISTE Standards for Students:
- Empowered Learner
- Digital Citizenship
- Knowledge Constructor
- Innovative Designer
- Computational Thinker
- Creative Communicator
- Global Collaborator
World and Classical Languages
In the 21st Century knowing a second language is not only beneficial, but necessary for success in life. The continual globalization of the world’s economy is bringing diverse cultures and communities into more frequent contact with each other. The case of global travel and the internet have collapsed the barrier distance that once kept the world’s communities separate. From the corporate marketplace to the individual consumer, from the pre-schools to universities, from the beach vacationer, to the global jet set, the world community has become integrated and interdependent. Institutions of higher learning are scrutinizing applicants to identify future leaders. Employers and businesses are seeking applicants who can navigate the modern global economy. It is through learning another language that students can develop both these skills sets. Learning another language also provides many other benefits including greater academic achievement, greater cognitive development, and more positive attitudes towards other languages and cultures. Simply put, language learning is necessary for students to effectively function in the modern global society.

Graduation Requirements
All students are required to earn 1 unit in a language for graduation unless language exempt. Students who successfully completed two years of study in middle school and passed the Checkpoint A Proficiency Exam in a language have earned 1 unit. Students pursuing a Regents Diploma with Advanced Designation must earn three (3) units of Language and pass the Comprehensive Checkpoint B Examination in a language.

FRENCH 2
0358 Full Year 1 Credit Grades 10-12
Students continue to develop communication skills and cultural awareness. More complex language structures are introduced to facilitate greater development of listening, speaking, reading, and skills. Vocabulary topics and contexts are expanded. Cultural topics are introduced to guide students towards a greater understanding of francophone people and cultures.
Prerequisite: Successful completion of the proficiency language requirement (7th and 8th grade French or French 1).

FRENCH 3
0354 Full Year 1 Credit Grades 10-12
This course expands students' knowledge of the French language through the five National World Language Standards: Communication, Cultures, Connections, Comparisons, and Communities. The Checkpoint B Comprehensive Exam for Regents credit is given at the end of the course.
Prerequisite: Successful completion of the proficiency language requirement (level 2).

FRENCH 4 UNIVERSITY IN THE HIGH SCHOOL 1
0352 Full Year 1 Credit Grade 11-12
This course offers students the opportunity to increase their proficiency, begin completion of college language requirements, and enjoy the language and culture. Projects, research, films, and literature broaden the students’ understanding of the language and francophone cultures. Students may register for this course as Intermediate French 1/French 201 and take the course as dual credited through a University partner for college credit. In the spring, students demonstrate their work at our World Languages Cultural Night. Students will also begin preparing to achieve the New York State Seal of Biliteracy in this course.
Prerequisite: Successful completion of French 3. College Credit: SUNY Adirondack. Fee required for college credit. Students may opt to take the course for only high school credit.

FRENCH 5 UNIVERSITY IN THE HIGH SCHOOL 2
0350 Full Year 1 Credit Grade 12
In this course students begin to reach for advanced proficiency of the language. Students may register for this course as Intermediate French 2/French 202 and take the course as dual credited through a University partner for college credit. In the spring, students will again demonstrate their work at our World Languages Cultural Night. Students will have the opportunity to achieve the New York State Seal of Biliteracy for graduation distinction.
Prerequisite: Successful completion of French 4. College Credit: SUNY Adirondack. Fee required for college credit. Student may opt to take the course for only high school credit.

SPANISH 1
0376 Full Year 1 Credit Grades 9-12
This introductory course places an emphasis on developing strong communication skills while learning about the culture of the Spanish speaking world. This course may be used to fulfill the proficiency language requirement for graduation.

SPANISH 2
0374 Full Year 1 Credit Grades 10-12
Students continue to develop communication skills and cultural awareness. Topics and themes are expanded to facilitate greater development of listening, speaking, reading, and skills. New cultural topics are introduced to guide students towards a greater understanding of Spanish speaking people and cultures.
Prerequisite: Successful completion of the proficiency language requirement (7th and 8th grade Spanish or Spanish 1.)
SPANISH 3
0370 Full Year 1 Credit Grades 10-12
This course expands students' knowledge of the Spanish language through the five National World Language Standards: Communication, Cultures, Connections, Comparisons, and Communities. The Checkpoint B Comprehensive Exam for Regents credit is given at the end of the course.
Prerequisite: Successful completion of Spanish 2.

SPANISH 4 UNIVERSITY IN THE HIGH SCHOOL 1
0368 Full Year 1 Credit Grades 11-12
This course offers students the opportunity to increase their proficiency, prepare for college language requirements, and enjoy the language and culture. Projects, research, films, and literature broaden the students' understanding of the language and francophone cultures. Students may register for this course as Intermediate Spanish 1/Spanish 201 and take the course as dual credited through a University partner for college credit. In the spring, students demonstrate their work at our World Languages Cultural Night. Students will also begin preparing for the New York State Seal of Biliteracy in this course.
Prerequisite: Successful completion of Spanish 3. College Credit: SUNY Adirondack. Fee required for college credit. Student may opt to take the course for only high school credit.

SPANISH 5 UNIVERSITY IN THE HIGH SCHOOL 2
0366 Full Year 1 Credit Grade 12
In this course students begin to reach for advanced proficiency of the language. Students may register for this course as Intermediate Spanish 2/Spanish 202 and take the course as dual credited through a University partner for college credit. In the spring, students will again demonstrate their work at our World Languages Cultural Night. Students will have the opportunity to achieve the New York State Seal of Biliteracy for graduation distinction.
Prerequisite: Successful completion of Spanish 4. College Credit: Fees required for college credit. Student may opt to take the course for only high school credit.

LATIN 1
0395 Full Year 1 Credit Grades 9-12
This course is a beginning study of the Latin language including grammar, word derivation, and ancient Roman culture. Students will develop skill in reading Latin texts while understanding the underlying grammatical structure.
Prerequisite: Successful completion of Latin 1.

LATIN 2
0394 Full Year 1 Credit Grades 10-12
This course is a continuation of building upon the foundation established in Latin I as students increase their abilities to read Latin texts and understand the underlying grammatical structures. Students will also further their study of word derivation and of ancient Roman culture.
Prerequisite: Successful completion of Latin 1.

ACCELERATED LATIN 1-2
0396 Full Year 1 Credit Grades 9-12
This is a fast track course designed for the highly motivated students who have a very strong interest in language learning. The students will complete the material covered in Levels I and II in one year of study. Students will then be able to go immediately into the Level 3 continuation of the Foreign Language sequence.

LATIN 3
0393 Full Year 1 Credit Grades 10-12
Students will review material previously covered in Latin I and II or Accelerated. They will further develop their skills in understanding Latin texts and the underlying grammatical structures in preparation for the Regents credit bearing examination given in June. Students will continue their study of word derivation and Roman culture. Students are expected to achieve Checkpoint B mastery as indicated by the NY State Curriculum Guide.
Prerequisite: Successful completion of the proficiency language requirement (Level 2 or Latin 1-2 Accelerated).

LATIN 4
(University in the High School)
0392 Full Year 1 Credit Grades 11-12
Students will handle college level material with emphasis on the study of authentic Latin texts and the development of critical analysis of the texts. This course is designed to take students beyond the level of proficiency established at Checkpoint B to one appropriate for a college sophomore studying Latin. Four (4) college credits, offered through University at Albany may be received upon completion of this course for a fee. Students will also begin preparing to achieve the New York State Seal of Biliteracy.
Prerequisite: Successful completion of Latin 3. College Credit: University at Albany. Fee required for college credit. Student may opt to take the course for only high school credit.

LATIN 5 HONORS
0390 Full Year 1 Credit Grade 12
Students will continue to handle college level material with emphasis on the study of authentic Latin texts and the development of critical analysis of the texts. There will also be more intensive units of study on Roman Mythology and Roman Civilization. Each student will be expected to develop and present a major project some time during the year. Students will have the opportunity to achieve the New York State Seal of Biliteracy for graduation distinction.
Prerequisite: Successful completion of Latin 4.
EACH ONE TEACH ONE
0383  1 Semester   .5 Credit   Grades 11-12
EOTO is a one semester course where juniors and seniors will teach French, Latin, or Spanish at the elementary schools in the district. The first five (5) weeks of the semester, students are in a class at the high school where they learn how to create lesson plans, create materials, and learn about teaching. The rest of the semester students will travel to an elementary building during the class time to teach 20-minute lessons to elementary students. They will continue to meet as a class occasionally to work on plans and activities and discuss their lessons. Interested students should be accomplished in the language, have excellent attendance, be responsible and willing to represent the high school well in the community.
Prerequisite: Successful completion of the World Languages 3-year sequence (study through level 3.)

ENGLISH AS A NEW LANGUAGE FOR ENGLISH LANGUAGE LEARNERS

STAND-ALONE ENL
English as a New Language (ENL) for English Language Learners. Students receive instruction in order to acquire academic and social language needed for success in core content classes and beyond. Stand-Alone ENL is typically held in the ENL classroom with the ENL teacher and ELL students. Students are not taken out of core classes to receive Stand-Alone ENL.

INTEGRATED ELA/ENL
This course is for English Language Learners of all levels of English proficiency and their peers. The ENL and ELA instructors co-teach English Language Arts that includes strategies to assist all students, with various lessons.
Career and Technical Education through BOCES

Career and Technical Education (CTE) programs provide hands-on learners an opportunity to master academics and technical skills within a subject that interests them and leads to a rewarding career.

The objectives of Career and Technical Education are:
- To acquire skills for employment
- To prepare students to earn National and State Industry Certifications
- To prepare students to pass an Industry-approved Technical Assessment
- To encourage students to continue their education through Articulation Agreements with colleges
- To prepare students for positions that are available in the region
- To provide credit toward graduation from high school
- To prepare for further trade, technical and/or advanced training

Students receive four credits each year of successful study in a Career and Technical program (3 units in CTE and 1 unit in Math and English).

The Career and Technical programs listed below will be offered at the F. Donald Myers Education Center. Transportation is arranged so that students can take classes at Saratoga as well as the Career and Technical course. Students are urged to visit the appropriate programs and the campus to help them understand the courses that are offered before they decide to attend. Saratoga is committed to paying tuition for students who take these courses. It is not always possible to provide other courses to replace a Career and Technical course dropped once the school year is underway. For these reasons, the student, parents and counselors should consider all the issues before deciding on a specific program.

Enrollment Process
Students must apply for the program of choice. Upon receipt of the application, the student will be placed in a lottery for a seat in the program. If you don’t receive a seat in your program of choice after the lottery, you will be placed on a waiting list for subsequent lotteries.

Approximate Program Hours
AM Session: 8:00 -10:30 am
PM Session: 11:45 am – 2:15 pm

Connect with WSWHE BOCES at www.wswheboces.org

AUTO BODY
This is a two-year program based on Automotive Service Excellence (ASE) Task Lists for Painting and Refinishing and Non-Structural Analysis and Damage Repair. The curriculum includes, but is not limited to: Body Alignment, Dent Removal, Welding, Painting, Refinishing, Trim, Glass Work, Shop Operations, and Safety Training. Use of computers, tools and technology. Students apply their knowledge and skills in the state-of-the-art paint booth and mixing room and use the latest technology in our on-site shop. The program prepares students for entry-level employment in the auto body industry and to achieve Automotive Service Excellence (ASE) Certification after they have met all the requirements. Students are also prepared and encouraged to continue their education and training at post-secondary institutions and industry-supported training centers.

AUTOMOTIVE TECHNOLOGY
This is a two-year program based on the National Automotive Technician Education Foundation (NATEF) model for Maintenance and Light Repair. The certification track is designed to graduate entry-level technicians with a broad skill set, a solid foundation in electrical/electronics, and a general understanding of all automotive systems. The program offers live work on school-owned vehicles using high-tech equipment. Students benefit from strong relationships with industry partners that results in a wide variety of internships, equipment and vehicle donations. Heavy use of computers and high-tech equipment increases students’ diagnostics and repair skills in the following areas: brakes, electrical and electronic systems, steering and suspension, engine repair, engine performance, manual drive train and axles, automatic transmission/transaxle, heating and air conditioning.

CONSTRUCTION TRADES
This is a two-year program based on the Residential Construction Academy Series. Students obtain a basic knowledge of tools, methods, materials, and technologies currently used in the construction industry; emphasis is placed on theory, as well as related math concepts. Practical experience is gained through on-site and community service-based construction projects throughout the year, and students will also complete the construction of a modular home during the school year. Students complete competency-based modules including: small to large-scale residential construction, safety, tools and equipment, blueprints, building materials, floors, walls, ceilings, stairs and roofing, window and doors, site layout, foundations, interior and exterior finishing, project management.

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**COSMETOLOGY**
This is a two-year, 1000-hour program dedicated to preparing students for current and emerging careers in the professions of natural hair styling, esthetics, nail specialty, and/or cosmetology. Cosmetology combines crucial elements of art, science, technical skills, interpersonal skills, and entrepreneurship. Students will adhere to all ethical and professional standards of the cosmetology industry. Students are expected to participate, under supervision, in the actual operation of a full-service salon on each campus, catering to real customers, in order to gain management skills and customer service experience. Curriculum includes commencement level math and English language arts. Upon successful completion of the 1,000-hour program, students are eligible to sit for the New York State Licensing exam to obtain a cosmetology license.

**CRIMINAL JUSTICE STUDIES**
This is a two-year program for students interested in careers in law enforcement, investigations, security, corrections, courts, law, social work and counseling, or other related fields. The comprehensive curriculum covers topics such as: The Study of Crime, The Foundations of Law Enforcement, the courts, emergency and fire management, introduction to criminal justice, legal aspects and the law, investigations, corrections, crime prevention, and interpersonal communications. Students participate in mock trials, crime scene investigations, accident investigations, crime scene sketching, budget development, police reports, educational field trips, and community service projects. The curriculum is presented through classroom instruction, computer-based learning, and hands-on related activities and labs.

**CULINARY ARTS AND HOSPITALITY**
The Culinary Arts & Hospitality Program at BOCES implements an industry-based program that includes kitchen basics, safety and sanitation, purchasing and inventory control, customer service, and food and control cost. Students complete two years of instruction and pass national assessments during each year. They must also complete a minimum of 10 hours of non-paid internship. Upon completion, the students are ready for careers in the hospitality industry and post-secondary opportunities. The curriculum includes: Basic food preparation, purchasing, inventory control, culinary nutrition and techniques, sanitation and workplace safety, hospitality management, front and back-of-house operations, menu planning and development, food and cost control, and marketing.

**EARLY CHILDHOOD EDUCATION**
This is a two-year program based on Child Development Associate (CDA) competencies and requirements, focuses on developing skills in early childcare and the education profession. This program provides students with the opportunity to work with children three and four years old, under supervision, in an on-site preschool that is free to the community. Students learn to provide guidance, promote positive and productive relationships with families, and will ensure well-run childcare programs as well as learn to establish and maintain a safe, healthy learning environment, while nurturing the physical, intellectual, social, and emotional development of young children.

**ENVIRONMENTAL CONSERVATION AND FORESTRY**
This is a two-year program that aligns with the Society of American Foresters Programs in Forest Technology standards and procedures. The program emphasizes forest ecology and silviculture, forest management, woods safety, forest land usage, forest protection, fish and wildlife management, forest recreation, trends in urban forestry, and current and emerging environmental conservation issues. Students spend over 75% of their time outdoors in “land labs.” These labs enable students to participate in approved projects that put theory into practice. There are a number of different types of land labs from entrepreneurial endeavors to community service projects.

**GRAPHIC AND VISUAL COMMUNICATIONS**
This is a two-year program based on current and future trends and practices in the industry with a concentration on Adobe Creative Suite applications, including PhotoShop, Illustrator and InDesign. Students learn the following applications and skills: basic layout and design for television, print and Internet, digital photography, illustration, audio and video editing, and animation. Students use state-of-the-art Apple computers and digital equipment to create multimedia projects. They receive comprehensive instruction with an emphasis on technical excellence in desktop publishing applications. In addition, students learn skills necessary to build, maintain, and grow client relationships.
HEALTH OCCUPATIONS
This is a two-year program that implements two state curriculums, Health Occupations (CORE) and Nurse Assisting. Skills & Theory is designed to prepare students to render care in a variety of health care facilities as a nursing assistant. The program builds on skills and theory acquired through CORE care. For example, the course comprises of entry-level skills related to anatomy and physiology, and frequently seen abnormal conditions. The second-year students will learn skills in Medical Office Assisting, phlebotomy, EKGs, computer applications, and central supply, in conjunction with supervised clinical experience at hospitals, nursing homes, physicians' offices, clinics, insurance companies, and community agencies.

HVAC-R
This is a two-year program aligned with the most current HVAC Excellence modules relevant for this geographic area and industry needs and trends. The program imparts skills and knowledge for the following areas: installation, service and repair of heating, air conditioning, and refrigeration equipment, systems in both residential and commercial applications with emphasis on safety and Environmental Protection Agency (EPA) requirements and regulations. The coursework integrates shop operations, job planning and estimating, customer service, professionalism, and ethics. The curriculum is enhanced by the Home Performance with the Energy Star Program, which helps students understand how the house works as a system.

HEAVY EQUIPMENT MAINTENANCE AND OPERATION
This is a two-year program based on the National Center for Construction Education and Research Contren Learning Series for Heavy Equipment and Repair. Students learn to operate, maintain, diagnose, and repair construction-related equipment such as backhoes, bulldozers, bucket loaders, excavators, dump trucks, and skid steers. The program enjoys a corporate collaboration with Milton/Caterpillar, and Bobcat among others, through which students receive specialized training at their corporate site, as well as instructional opportunities at our education centers, field trip experiences, internships, and job shadowing opportunities. Students study the following modules throughout the program: introduction to the trade, heavy equipment safety, identification of heavy equipment and basic operational techniques, tractors, grades and slopes, diesel engines, and hydraulics.

HORSE CARE
This is a two-year program that includes training of Standardbred horses for racing, using all related tack and equipment. Students learn the role of the caretaker, safety, professionalism, handling of horses, and breaking of yearlings. Students spend most of their time at the Saratoga Equine Sports Center where they learn and apply equine and veterinary science on Standardbred horses. Students are given the opportunity to participate in a Work-Based Learning experience, which exposes them to the operation of a business and specific job duties related to future careers. The curriculum includes: equine systems, equine physiology, nutrition, health, disease, emergency medical care, stable management, bloodlines and breeding, and equine sales.

HORTICULTURE, LANDSCAPING AND FLORAL DESIGN
This is a two-year program aligns with the NYS Nursery & Landscape Association and incorporates contemporary knowledge, skills, and trends found in the horticulture, floral, and landscaping industries. Students design and implement landscaping for some of the area’s finest gardens. They operate and manage on-site greenhouses and floral shops that are open to the public, gaining hands on experience in retail sales, merchandising, customer service, and shop management. The curriculum includes: landscape design, floral design, greenhouse crop production, landscape installation and maintenance, ornamental horticulture, integrated pest management, plant biology, soil science, hydroponics, retail sales,
NEW VISIONS HEALTH CAREERS AND EXPLORATION

Admission to the New Visions Health Careers Exploration Program is competitive and highly selective. Students from 31 school districts compete for a limited number of Health Careers Exploration positions. Successful applicants must demonstrate solid academic ability, a commitment to continued education in the medical field, and strong study/organizational skills. Specific requirements include three (3) years each of New York State Regents math, science, English, and social studies. Advanced academic ability, strong study/organizational skills, and a solid attendance record. Students accepted must provide a record of immunization and a physical examination report, attend a pre-employment orientation at the hospital as well as provide their own transportation to and from school and clinical sites.

Classrooms are in the Wesley Health Care Center in Saratoga Springs and in the Sanford Street School in Glens Falls. Students meet for 3.5 hours daily, attend classroom instruction two days per week and clinical rotations in a variety of health professions the other three days. Clinical rotations are assigned at Glens Falls Hospital, Saratoga Hospital, Wesley Health Care Center, and several private practices and clinics throughout the region. Students observe acute and routine medical procedures, as well as providing ancillary support services to patients. The schedule will be 8:00 am to 11:30 am.

Students receive one credit each for anatomy & physiology, health careers exploration, English 12 honors, and one-half credit each for economics, and participation in government. Students will also could earn 3 college credits through SUNY Adirondack by taking BIO109 - Medical Terminology.

WELDING

This two-year Welding program is based on the American Welding Society (AWS) curriculum, which provides broad exposure to the operation, standards, and current practices in the field of welding and fabrication. Students learn through classroom instruction, demonstrations, field trips, guest speakers, and hands-on practice of welding techniques.
SUNY Adirondack Early College Career Academy: An Early College High School Program

This is a two-year Early College High School Program, where students could earn 27 to 39 college credits, at no cost to the student, while earning marketable industry credentials and participating in an internship experience. These two-year programs begin in your junior year: Electrical Technology/Advanced Manufacturing, Information Technology/Computer Networking, and New Media.

The SUNY Adirondack Early College High School Career Academy is designed to: connect high school academics to the higher expectations of college academics, link academic coursework with careers, develop career pathways from high school through college to jobs in in-demand industries, increase exposure to math and science through areas of student interest, foster direct entrance to college, assist students who may not otherwise attend college in obtaining college credits, and challenge students to be college and career ready.

The college portion of this two-year, half-day sequence for high school juniors and seniors will be co-taught by SUNY Adirondack professors and a WSWHE BOCES Career and Technical Education instructor. Science, technology, engineering, and math (STEM) fundamentals will be taught in a connected, collaborative environment using project-based learning.

Each student will be provided with a laptop, notebook, or tablet, for a 1:1 technology experience. Students will also receive hands-on experience using state-of-the-art advanced manufacturing equipment.

During college breaks, students who participate in the SUNY Adirondack Career Academy will have the opportunity to participate in internships or job shadowing experiences with local business owners.

At the end of the two-year program, a successful student will have earned up to 32 college credits, nationally recognized industry certifications, a Regents diploma, and participated in a valuable internship experience.

Electrical Technology/Advanced Manufacturing

Students who participate in the Electrical Technology/Advanced Manufacturing Pathway will be dually enrolled in high school and SUNY Adirondack as non-matriculated students. Half of the day will consist of college courses on SUNY Adirondack’s Queensbury campus; the other half will include Regents level courses at the student’s high school. Topics will include: robotics, precision measurements, pneumatic systems (using air pressure for movement), programmable logic controllers, sensor technology, troubleshooting simulated circuits and debugging and editing tools. Students will learn how to read engineering drawings, how to use tools for inspecting parts, and how to do quality control reports. As a student of SUNY Adirondack, you would have access to all college services on campus as well, such as; freshman seminar, math tutoring center, the reading/writing center, library services, transfer college services and the career/research center. Prerequisite: Student will be required to take SUNY Adirondack’s Accuplacer exam to determine whether or not the student’s Math level is appropriate to get into this program.

Information Technology/Computer Networking/Cybersecurity

Students who participate in the Information Technology/Computer Networking Pathway will be dually enrolled in high school and SUNY Adirondack Wilton Center as non-matriculated students. This Early College High School program concentrates on the high-tech, information technology/networking industry. IT/networking companies in the region are seeking qualified employees who are fluid with technology, adaptable to change, and able to think on their feet. It is the mission of this new program to develop IT technicians to help companies continue to grow and innovate while at the same time engage young people in exciting new college courses geared toward lucrative careers. Students who participate in this program will be dually enrolled in high school and SUNY Adirondack as non-matriculated students. Students spend half of the day at SUNY Adirondack’s Wilton Center campus, and the other half at their home school. The college portion of this two-year, half day sequence is co-taught by college professors and a BOCES Career and Technical Education instructor. STEM fundamentals are taught in a connected, collaborative environment, with time devoted to hands-on learning using state-of-the-art IT/networking equipment. Along with your regents diploma you could earn 28 tuition-free college credits and 3 Industry Certifications recognized nationally by the Cisco Systems. Some courses include: CISCO Intro of Network, CISCO Routing Protocols and Concepts, IT Essentials Hardware, IT Essentials Security and CISCO Scaling LAN and WAN technologies. Prerequisite: Students will be required to take SUNY Adirondack’s Accuplacer exam to determine whether or not the student’s Math level is appropriate to get into this program.
NEW MEDIA

Students who participate in the New Media Pathway, will be dually enrolled in high school and at SUNY Adirondack. This graphics arts program will be offered at both the Queensbury and Wilton campuses. This program combines the strengths of the very popular Media Arts program offered at SUNY Adirondack and the Graphic and Visual Communications program at WSWHE BOCES. Students will be eligible to earn up to 32 college credits, a college certification and industry certifications. The Media Arts program combines and exposes students to three facets of study that are essential for anyone getting into the field: Graphic Design, Photography, and Video Editing/Production. The sequence of coursework in this program will ensure job-ready skills and national certifications recognized by the Adobe Certified Associate program. The curriculum includes photography, graphic arts, web design, digital prepress, digital video editing, mass communications, portfolio development and advanced media workshops.

BUSINESS ENTREPRENEURSHIP

Students who participate in the Business Entrepreneurship, will be dually enrolled in high school and SUNY Adirondack, Wilton center, as a non-matriculated student for this two-year program. Upon completion, a student is eligible to earn up to 26 college credits toward one of the following degrees: Associate in Applied Science (AAS) in: Accounting, Management, Marketing and Entrepreneurship, and/or Hospitality and Tourism Management. Associate in Science (AS) degree in Business Administration or a SUNY Adirondack Entrepreneurship and Business Management Certificate.

Students will engage in a combination of college courses, technical education and job skills related to the field of business and entrepreneurship. BOCES educators and SUNY Adirondack professors work together in the Early College Career Academy to provide students a transdisciplinary environment that encompasses all learning styles and individual strengths.

The sequence of coursework in this program will ensure job-ready skills and the opportunity to earn nationally recognized certification in Six Sigma operational excellence, which includes the areas of strategy deployment, performance management, high performance work teams, and process excellence.

To learn more about the different pathways available in this program please visit:

http://www.careerandteched.org/page/early-college-career-academy
The mission of the Clean Technologies & Sustainable Industries Early College High School is to develop and support pathways to higher education that lead to careers in STEM fields for students through rigorous academic programming and a collaborative approach to learning. A network of K-12, higher education, business and industry partners has been developed to provide students with the highest level of education and support for entering and succeeding in the clean energy fields.

The Clean Technologies & Sustainable Industries Early College High School is an innovative program that provides high school students with transdisciplinary learning and 21st Century skill sets necessary to make informed decisions as they relate to college and career readiness. Students have the advantage of being in a fully connected and collaborative learning environment. Students work at their own pace and leverage 1:1 technology to access individualized academic support, master program expectations, and develop college and career readiness. With support from regional economic leaders, including the Center for Economic Growth (CEG), Saratoga Economic Development Corporation (SEDC) and local Chambers of Commerce, the program connects with hundreds of businesses throughout the region that serve as assets for students and represents a robust fusion of education, business and industry collaborating to train students to become innovators and leaders for the jobs of tomorrow.

Early college high schools blend high school and college in a rigorous yet supportive program, compressing the time it takes to complete a high school diploma and the first two years of college. Students in the Clean Technologies & Sustainable Industries Early College High School Program take both high school and college level coursework on a college campus at Hudson Valley Community College’s TEC-SMART campus located in Malta, NY. Students can only be considered for this program in 8th grade.

Students will choose one of the following career pathways:
- Clean Energy
- Computer Science & Information Systems
- Nanotechnology and Mechatronics
- Entrepreneurship, Leadership & Innovation

To learn more about the different pathways available in this program please visit:

http://www.bscsd.org/cleanTech.cfm?subpage=14897

Program Overview and Format
The program includes the following for 9th Grade:
- A week-long Summer Academy for incoming 9th graders to be held on the TEC-SMART Campus
- Focus on Community Building
- Design Project and Exploration
- Introduction to the first project
- Time Management/Organization Strategies for entering 9th grade
- Technology Integration and virtual field trips / design challenges throughout the school year
- Spring Semester: On-line college coursework; The College Forum - HVCC 1 credit

The program includes the following for 10th Grade:
- A week-long Summer Academy for incoming 10th graders to be held on the TEC-SMART Campus focusing on program career pathways and workplace skills. Financial Literacy Program
- Yearlong Virtual Learning Program. Each module will focus on a Pathway
- Yearlong Mentoring
- Students are enrolled in high school coursework at their home school
- College coursework in the Fall and Spring semesters

The program includes the following for 11th and 12th grade:
- Students attend school at TEC-SMART for high school and college classes in the morning; return to home school in the afternoon.

EARLY COLLEGE HIGH SCHOOL PATHWAYS

The program includes the following for 9th Grade:
- A week-long Summer Academy for incoming 9th graders to be held on the TEC-SMART Campus
- Focus on Community Building
- Design Project and Exploration
- Introduction to the first project
- Time Management/Organization Strategies for entering 9th grade
- Technology Integration and virtual field trips / design challenges throughout the school year
- Spring Semester: On-line college coursework; The College Forum - HVCC 1 credit

The program includes the following for 10th Grade:
- A week-long Summer Academy for incoming 10th graders to be held on the TEC-SMART Campus focusing on program career pathways and workplace skills. Financial Literacy Program
- Yearlong Virtual Learning Program. Each module will focus on a Pathway
- Yearlong Mentoring
- Students are enrolled in high school coursework at their home school
- College coursework in the Fall and Spring semesters

The program includes the following for 11th and 12th grade:
- Students attend school at TEC-SMART for high school and college classes in the morning; return to home school in the afternoon.

To learn more about the different pathways available in this program please visit:

http://www.bscsd.org/cleanTech.cfm?subpage=14897
Saratoga Pathways Academy (SPA)
The SPA Program is an interdisciplinary, project-based learning program for students in grades 9-12. SPA students take their core classes in the state-of-the-art Project-Based Learning Center within the High School. They have access to individual laptops, a 3-D printer, and more of the latest in educational technology. SPA students engage in authentic projects that emphasize both content knowledge and success skills that help students become college and career ready. Students are exposed to a challenging yet rewarding curriculum as they develop problem-solving skills, critical thinking, creativity, innovation, collaboration, communication and leadership. Projects offer students an opportunity to work interdisciplinary and often in conjunction with local businesses and organizations. SPA students also collect community involvement hours through service, internships, and job-shadowing experiences. In addition to their courses in the program, students run a SPA student government, mock economic system, and coordinate with parents and teachers about their own educational goals through the SPA TAPS committee.

The SPA Program is open to students at the beginning of any of their high schools’ years, 9-12. Eligible students must be on-track to receive an Advanced Regents Diploma. The following courses are offered for each grade as part of the SPA Program. Please note, the humanities courses are co-taught by social studies and English teachers, and therefore must be taken together.

Grade 9:
- SPA Global History 9 Humanities
- SPA English 9 Humanities
- SPA Biology
- SPA Algebra I
- SPA Geometry

Grade 10:
- SPA Global History 10 Humanities
- SPA English 10 Humanities
- SPA Earth Science and/or SPA Biology
- SPA Geometry
- SPA Research & Writing (ELA elective)

Grade 11:
- SPA United States History, Government & Humanities
- SPA English 11 Humanities

Grade 12:
- English 12
- Participation in Government/Economics

SARATOGA PATHWAYS ACADEMY ENGLISH 9
HUMANITIES
0055 Full Year 1 Credit Grade 9
This course is aligned with Saratoga Pathways Academy Global Studies 9 Humanities. Students in SPA have 1:1 access to technology, a state-of-the-art classroom, and Project Based Learning is the primary style of instruction. In this course students will study genres including poetry, drama, the novel, nonfiction, and short fiction. Students will read essays, articles, and literary criticism all related to various thematic units. They will explore the threads of moral code, empathy, the hero, and coming of age. Students will read classic works such as *Romeo and Juliet* by William Shakespeare, and Homer’s *Odyssey* as well as contemporary novels like *A Thousand Splendid Suns* by Khaled Hosseini and *Life of Pi* by Yann Martel. Because SPA English 9 Humanities and SPA Global Studies 9 Humanities are taught together, the classes progress chronologically through the ages. Students will also select books from all genres to read on their own throughout the school year. Assignments will include research assignments, creative pieces, individual and group presentations, article annotations and responses, literary essays, and thesis papers. Vocabulary, grammar, and technical aspects of language will be addressed within the context of study of the literature and the student’s writing.

SARATOGA PATHWAYS ACADEMY ENGLISH 10
HUMANITIES
0056 Full Year 1 Credit Grade 10
This course is aligned with Saratoga Pathways Academy Global Studies 10 Humanities, and continues the curriculum started in Saratoga Pathways Academy English 9 Humanities. Students in SPA have 1:1 access to technology, a state-of-the-art classroom, and Project Based Learning is the primary style of instruction. In this course students will study genres including poetry, drama, the novel, nonfiction, and short fiction. Students will read essays, articles, and literary criticism all related to various thematic units, and study literary selections representing numerous cultures and traditions. An exploration of the correlation between the savage and the civilized is central to engaging in Chinua Achebe’s classic work *Things Fall Apart*. Our reading of Elie Wiesel’s memoir *Night* will develop students’ understanding of the Holocaust, while Marjane Satrapi’s graphic novel *Persepolis* will broaden students’ definition of literature. Students will closely read and annotate texts of all forms, write literary essays and original creative works, and engage in a research project to produce and present a comprehensive paper. Project-Based Learning engages students in a variety of activities designed to develop deeper learning competencies required for success in college, career, and civic life while preparing them for the Common Core English Regents Examination.
SARATOGA PATHWAYS ACADEMY ENGLISH 11 HUMANITIES
0057 Full Year 1 Credit Grade 11
This course is aligned with Saratoga Pathways Academy US History 11 Humanities and continues the curriculum started in Saratoga Pathways Academy English 9 Humanities. Students in SPA have 1:1 access to technology, a state-of-the-art classroom, and Project Based Learning is the primary style of instruction. In this course, students will study genres including poetry, drama, the novel, nonfiction, and short fiction. Students will read essays, articles, and literary criticism all related to various thematic units and explore such classic American works as Steinbeck’s Of Mice and Men, Miller’s The Crucible, and Williams’ A Streetcar Named Desire. Students will complete writing assignments in a variety of settings and will also work on presenting their ideas in discussion and/or Socratic Forum. They will also refine their oral communication skills through gathering and organizing evidence to support a position in informative and persuasive presentations. The course addresses NYS Common Core Standards as well as the Saratoga Springs City School District Power Standards. Students will take the Common Core Regents examination in English at the conclusion of the course.

SARATOGA PATHWAYS ACADEMY GLOBAL 9 HUMANITIES
0145 Full Year 1 Credit Grade 9
As part of the SPA Program, this course offers a project-based learning approach to Global History 9. Taught together with SPA English 9 Humanities, the Global and English curriculums are intertwined to provide a more enriching learning experience. While learning about global history from the rise of ancient civilizations through the Age of Exploration, students will explore literature that complements their studies. As a project-based learning course, students participate in interdisciplinary, engaging unit projects that allow them to develop both knowledge and success skills for life, such as critical thinking, problem-solving, collaboration, creativity, innovation, communication, and leadership. SPA students also have access to the state-of-the-art Project-Based Learning Center, which is equipped with student laptops, a 3-D printer, and more of the latest educational technology. SPA Global 9 Humanities must be taken in conjunction with SPA English 9 Humanities. Students who were not enrolled in SPA 9 Humanities are still eligible to take SPA 10 Humanities.

SARATOGA PATHWAYS ACADEMY UNITED STATES HISTORY, GOVERNMENT AND HUMANITIES 11
0147 Full Year 1 Credit Grade 11
As part of the SPA Program, this course offers a project-based learning approach to United States History & Government. Taught together with SPA English 11 Humanities, the history, government and English curriculums are intertwined to provide a more enriching learning experience. While learning about United States history from colonization to the present, students will explore literature and current issues that complement their studies. As a project-based learning course, students participate in interdisciplinary, engaging unit projects that allow them to develop both knowledge and success skills for life, such as critical thinking, problem-solving, collaboration, creativity, innovation, communication, and leadership. SPA students also have access to the state-of-the-art Project-Based Learning Center, which is equipped with student laptops, a 3-D printer, and more of the latest educational technology. SPA US History, Government & Humanities must be taken in conjunction with SPA English 11 Humanities. Students who were not enrolled in SPA 10 Humanities are still eligible to take SPA 11 Humanities.