



# **Bethlehem Central High School**

Course Curriculum Handbook

2026-27

## KEY PEOPLE TO HELP YOU

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December 2025

Dear Students and Parent / Guardians,

One of the most exciting activities for our students is the selection of their courses for the following school year. As students move through High School this involves more and more choice in course offerings each year. It is this degree of choice that can make the process feel overwhelming. The best way to diffuse the stress of this process is to seek help early and often when trying to choose your best path.

Most importantly, students should talk with teachers in each content area about the course options available to them. Our teaching staff not only knows the student best with regard to their scholarship, but they also know how this student aligns with subsequent courses. Parents can also reach out to current teachers with questions about subsequent courses. We encourage this! Additionally, students can also request to meet with their counselor at any point in the process to talk about the entirety of their schedule. Counselors are able to speak to what students workload will be like, what the meeting patterns are for courses and how various courses fulfill graduation requirements. Lastly, our content area supervisors are an additional resource for students and parents. Supervisors can speak to the best courses for students to take as they align to various college and career options and with regard to a multi-year perspective.

Our staff takes great pride in helping students find their 'best fit' with regard to their program of study and the individual courses they select. We encourage you to make this process as interactive with our teaching staff and our counseling staff as you can. As the age-old saying goes, in this context, 'there are no bad questions.'

Sincerely,  
David Doemel  
Principal

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# PROGRAM PLANNING GUIDE

We believe that parents and students should work closely with teachers and school counselors in considering the various subjects and programs that are available.

## Planning Your Courses

The following guidelines will help you plan a successful program:

- Establish personal goals. Even though your plans may change, you should have some general educational, occupational and personal objectives.
- Honestly evaluate your strengths, interests, aptitudes and needs.
- Learn the requirements for entrance to the college or program of your choice or to the career area you plan to pursue after graduation.
- During your junior academic year, visit the colleges or career resources of interest to you.
- Consult your parents, talk with your teachers and consult with your school counselor in order to benefit from their experiences. Talk and visit with citizens of the community who are currently working in the professions that you find most interesting.
- Select the subjects that will contribute MOST toward helping you achieve your goals.

## NCAA Eligibility Information

The NCAA has strict academic eligibility requirements. If you are considering playing sports in college at the Division 1 or Division 2 level, it is highly recommended that students and parents refer to the NCAA Clearinghouse website, [www.eligibilitycenter.org](http://www.eligibilitycenter.org), for important information.

## Counseling Services

The counselors are available for individual and group meetings with students to discuss school programs and planning. Counselor assistance is helpful in the following areas:

### College/Career planning

Students need to determine what programs and schools best fit their interests and aptitudes. The web-based program SCOIR is used throughout the guidance and counseling curriculum to assist students and families with post high school plans.

### When you are having difficulty

Students may need study skills help or information on tutoring or special services that are available to Bethlehem students. Our counselors, teachers and supervisors are available to help you evaluate a particular course and its level of difficulty in relation to your ability.

## Grouping

In some of our subject areas, levels of instruction have been established to appropriately challenge the academic ability of students. Information regarding student placement for a course may be found in the text of the course description. This information is to serve as a guideline for parents, teachers and students. Parents are encouraged to consult with teachers and the school counselor if there are questions about student placement.

- **AP** - Advanced Placement courses include highly interested and skilled students in grades 10-12 who take College Board approved AP courses. All students enrolled in Advanced Placement courses are required to take the Advanced Placement Examination for each course. To sign up for the AP exam, students must pay the required fee set by the College Board on Linq Connect. Additionally, students will create a myap.collegeboard.org account and join their class section.
- **EXCEL** - Provides a team-based, interdepartmental organization of Regents-level curriculum for grade 10. The emphasis is on successful completion and reinforcement of basic skills and Regents requirements.
- **Honors** - Challenging courses for highly interested and capable students. Honors math courses include students who have accelerated their mathematics program.

### ***Attention Parents and Students:***

*With some courses a summer assignment is a requirement of that particular course. If a summer assignment is required it will be posted on the [BCHS Summer Assignments](#) website in June of every school year.*

## Additional Opportunities

- **Graduation Acceleration and Credit-by-Examination:** Some students meet graduation requirements in fewer than four years. Plans for such programs should be discussed with your counselor. Plans for early graduation should be discussed with your counselor no later than January of the junior year.
- **Career Exploration Internship Program or General Education Work Experience Program:** For information concerning these programs, please contact Mr. James Smith, Supervisor for Social Studies and Business Education (Rm. C111), at 439-4921, ext. 2048.
- **Capital Region Career and Technical School:** Juniors and/or seniors may enroll at the CTE School for career and technical courses upon successful completion of all grade 9 and 10 coursework.

## Dual enrollment and Advanced Placement courses

Dual enrollment and Advanced Placement (AP) courses are listed below. Both pathways offer opportunities to earn college credit and, therefore, incur associated costs. Please see your school counselor if you have any concerns related to cost. We do not want financial considerations to limit any student's course choices.

| Dual Enrollment Courses                |                     |                                      |                      |
|--|---------------------|--------------------------------------|----------------------|
| Social Studies/Business                |                     | Art                                  |                      |
| Course                                 | College             | Course                               | College              |
| Financial Decision Making              | HVCC                | Advanced Drawing                     | Siena University     |
| Business Org & Management              | HVCC                | Advanced Graphic Design              | Siena University     |
| Sports Marketing & Management          | HVCC                | Advanced Photography                 | University at Albany |
| Entrepreneurship                       | HVCC                | Advanced Painting                    | Siena University     |
| Marketing                              | HVCC                | Photography                          | Siena University     |
| Business Communications                | HVCC                | Technology and Engineering           |                      |
| Public Affairs (SUPA)                  | Syracuse University | Course                               | College              |
| Math                                   |                     | Introduction to Engineering & Design | RIT                  |
| Course                                 | College             | Civil Engineering and Architecture   | RIT                  |
| Calculus 3                             | HVCC                | Computer Integrated Manufacturing    | RIT                  |
| Linear Algebra                         | HVCC                | Principles of Engineering            | RIT                  |
| Discovering Computer Science           | Siena University    | Digital Electronics                  | RIT                  |
| Introduction to Computer Science       | Siena University    | PE/FACS/Health                       |                      |
| CSIS Software Development              | Siena University    | Course                               | College              |
| Science                                |                     | Child Development & Psychology       | SUNY Cobleskill      |
| Course                                 | College             | Culinary Arts I                      | SUNY Cobleskill      |
| College Physics                        | Siena University    | Culinary Arts II                     | SUNY Cobleskill      |
| Astronomy                              | SUNY Oneonta        | Early Childhood Education            | SUNY Cobleskill      |
| The Atmosphere (Climate & Forecasting) | SUNY Oneonta        | Exploring Teaching as a Profession   | University at Albany |
| ELA                                    |                     | World Languages                      |                      |
| Course                                 | College             | Course                               | College              |
| Pop Lit & Film                         | HVCC                | Intermediate French Honors           | University at Albany |
| Music                                  |                     | Advanced French Honors               | University at Albany |
| Course                                 | College             | Intermediate Spanish Honors          | University at Albany |
| N/A                                    |                     | Advanced Spanish Honors              | University at Albany |

| Advanced Placement Courses      |                                     |
|---------------------------------|-------------------------------------|
| Social Studies/Business         | ELA                                 |
| <u>AP Course</u>                | <u>AP Course</u>                    |
| AP American History             | AP English Literature & Composition |
| AP Art History                  | AP English Language & Composition   |
| AP Economics, PIG (Micro/Macro) | Music                               |
| AP European History             | <u>AP Course</u>                    |
| AP Human Geography              | AP Music Theory                     |
| AP Microeconomics, PIG          | Art                                 |
| AP Psychology                   | <u>AP Course</u>                    |
| AP World History: Modern        | AP Studio Art Portfolio             |
| Math                            | Technology and Engineering          |
| <u>AP Course</u>                | <u>AP Course</u>                    |
| AP Pre-Calculus BC              | AP Computer Science Principals      |
| AP Pre-Calculus AB              | PE/FACS/Health                      |
| AP Advanced Calculus BC         | <u>AP Course</u>                    |
| AP Advanced Calculus AB         | N/A                                 |
| AP Statistics                   | World Languages                     |
| Science                         | <u>AP Course</u>                    |
| <u>AP Course</u>                | AP French                           |
| AP Biology                      | AP Spanish                          |
| AP Chemistry                    |                                     |
| AP Environmental Science        |                                     |

## Credits Required by Grade Level

Students who do not have sufficient credits to pass to the next grade level may be retained in their current grade level. In order to be considered passing at any grade level the requisite credits a student must complete are listed below.

| Grade Level/ Class  | Graduation Year | Credit Requirement |
|---------------------|-----------------|--------------------|
| Grade 9/ Freshman   | 2030            | 5.5                |
| Grade 10/ Sophomore | 2029            | 10.5               |
| Grade 11/ Junior    | 2028            | 16.5               |
| Grade 12/ Senior    | 2027            | 22.0               |

*Students carrying less than the specified credit allowances to be considered in the next grade will be assigned to the appropriate course that fulfills state mandated curriculum.*

### **Note to students and parents:**

BCHS hopes to offer all the courses described in this Curriculum Guide during 2026-27, but some courses may be cancelled due to insufficient enrollment, scheduling problems, or budget constraints.



# Graduation Requirements

There are three components to meeting the NYS Graduation Requirements:



Our primary objective in educational planning is to empower every student to reach their fullest academic potential. By offering a diversified curriculum, we aim to meet all students' unique needs and abilities, ensuring that each individual receives the support and opportunities necessary for success.

Below are the required credit units and the mandatory examinations students must complete to earn a diploma. To fulfill the graduation requirement of a minimum of 22 credits, students will also need to select additional elective courses. These electives provide students with the flexibility to explore various interests and are available across all curricular areas, allowing them to tailor their educational experience to their personal goals and aspirations.



## Diploma Credit Requirements

While there are multiple means of earning units of credit towards a diploma, typically students earn diploma credit through the mastery of the learning outcomes set forth in a locally developed syllabus for a given high school subject, after the student had the opportunity to complete a unit of study (180 minutes of instruction per week throughout the school year, or the equivalent). The credit requirements below apply to all diploma types: local, Regents, and Regents with advanced designation^.

| Required Content Courses  | Minimum Number of Credits |
|---|---------------------------|
| English   | 4                         |
| Mathematics   | 3                         |
| Science <ul style="list-style-type: none"><li>Life Science (1 credit)</li><li>Physical Science (1 credit)</li><li>Life or Physical Science (1 credit)</li></ul> | 3                         |

|   |           |
|---|-----------|
| Social Studies <ul style="list-style-type: none"> <li>• Global History and Geography (2 credits)</li> <li>• US History and Government (1 credit)</li> <li>• Participation in Government (½ credit)</li> <li>• Economics (½ credit)</li> </ul> | 4         |
| World Languages   | 1*        |
| The Arts (Dance, Media Arts, Music, Theater, and/or Visual Arts)  | 1         |
| Physical Education (participation each semester, ¼ credit earned per semester)  | 2         |
| Health  | ½         |
| Electives   | 3 ½       |
| <b>TOTAL</b>  | <b>22</b> |

\* *Students with disabilities may be excused from the requirement of 1 unit of credit in World Languages if so indicated on their Individualized Education Program (IEP), but they must still earn 22 credits to graduate. Such students are also exempt from the sequence requirement for earning a Regents diploma with advanced designation.*

^ To earn the Regents diploma with advanced designation, students must also complete one of the three sequence options:

- two additional credits in World Languages (for a total of three credits) and the locally developed Checkpoint B World Languages Exam,
- 5-unit sequence in the Arts, or
- 5-unit sequence in Career and Technical Education (CTE).

Note: A student exempt from the World Languages credit requirement who seeks a Regents diploma with advanced designation does NOT have to complete the 5-unit sequence in the Arts or CTE in lieu of the World Languages sequence in order to meet the assessment requirements for the advanced diploma.



## Diploma Assessment Requirements

In addition to successful completion of the appropriate units of credits, to earn a local, Regents, or Regents with advanced designation diploma, **5 Regents exam scores of 65 or higher are required for BOTH Regents with Advanced Designation and Regents Diplomas.** Pathways to Graduation: “4+1” Option - Permits a student to take four Regents exams and a comparably rigorous technical, arts, or other assessment for the fifth examination required for graduation. Students must pass 1 exam in each area – English, mathematics, science, and social studies – a total of 4, AND 1 additional exam in social studies, mathematics, or science.<sup>&</sup>:

| Required Exams for: | Regents Diploma  | Regents Diploma w/ Advanced Designation   |
|---------------------|--|---|
| English             | English Language Arts Regents  | English Language Arts Regents   |
| Mathematics         | One Mathematics Regents  | Algebra I Regents<br>Geometry Regents<br>Algebra II Regents   |
| Science             | One Science Regents  | Living Environment Regents<br>One of the Physical Setting Regents<br>(Earth Science, Chemistry, or Physics) |
| Social Studies      | Global History and Geography Regents<br>US History and Geography Regents | Global History and Geography Regents<br>US History and Geography Regents                                    |

*& Eligible students may meet the assessment requirements using the New York State Safety Net by passing a Regents exam with a score between 55 and 64. Those who score between 45 and 54 on a Regents exam may still graduate if they have a corresponding mathematics or English exam with a score of 65 or higher; each exam at or above 65 qualifies the student for one exam credit for grades between 45 and 54.*

## Additional Notations for Regents diplomas

- **Seal of Biliteracy** - students who attain proficiency in listening, speaking, reading, and writing in one or more World Languages in addition to English.
- **Seal of Civic Readiness** - students who attain a high level of proficiency in terms of civic knowledge, civic skills, civic mindset, and civic experiences.
- **Honors** – must achieve a computed average of 90 or better on all required Regents exams for specific diploma type.
- **Mastery in Math** – must achieve scores of 85 or better on each of 3 Regents examinations in mathematics.
- **Mastery in Science** – must achieve scores of 85 or better on each of 3 Regents examinations in science.
- **Career and Technical Education Endorsement** - Achieves a passing score on State assessments as listed above for specific diploma types and successfully completes the 3 part technical assessment designated for the particular approved career and technical education program that the student has completed.
- **Career Development and Occupational Studies (CDOS) Commencement Credential** – student has completed a career plan; demonstrates attainment of the commencement level Career Development and Occupational Studies (CDOS) learning standards in the areas of career exploration and development, integrated learning and universal foundation skills; satisfactorily completes the equivalent of 2 units of study (216 hours) in Career and Technical Education coursework and work-based learning (including at least 54 hours of work-based learning); and has at least 1 completed employability profile; OR student meets criteria for a national work readiness credential.

# Incoming Ninth-Grade Students

Eighth-graders and their parents will receive assistance in planning their schedules from the Middle School counselors. The schedule of dates and times for the Middle School course selection meetings will be brought home by eighth graders.

## Time Frame for Course Changes

***Schedule changes will not be made during the summer.***

Once school starts in the fall, all students must follow their assigned schedules for the first three (3) days of classes. Only students who have serious schedule problems (i.e.: “double booked”, wrong level, missing a required course, etc.) can make changes during the first three (3) days of the school year. Beginning with the first FULL week of school, students may initiate schedule change requests through their school counselor.

### Drop/Level Change Timelines (No consequence - no transcript posting)

- 22nd week of year for full year courses
- 12th week of semester for ½ year courses
- Drops can occur at any point after these dates but with a transcript designation.

Level changes may be initiated by the classroom teacher and/or the student. A student who wishes to make a level change should go to their teacher first, then their school counselor. Level changes will then be discussed with the student, parent, teacher, counselor, and the department supervisor. Students will be contacted by their counselor once the changes have been approved. The approval process may take up to three (3) school days. Students should continue to attend their scheduled classes until the changes have been made.

### Under-Enrolled Courses

The high school’s administration and department supervisors review all courses with a low enrollment. This review is done in the spring and may lead to the deletion of a course. After such a deletion is made, the counselors will meet with students who have signed up for the deleted course to arrange for another course selection. The listing of a course at the time of student enrollment is not a guarantee that it will be taught the following year. It is our goal to provide students with a complete scope of departmental courses from introductory to the more advanced courses.

# Student Support Services

Students who have a disability may be eligible for an individualized education plan that provides accommodations and/or services to assist the student in meeting the New York State learning standards.

## Section 504 Accommodation Plan

Students who have a disability that substantially limits one or more of the student's major life activities, may be eligible for a 504 Accommodation Plan. Major life activities include caring for one's self, walking, seeing, hearing, speaking, breathing, working, performing manual tasks and learning. If eligible for a 504 plan, students could be considered for program and test accommodations.

## Individualized Education Plan under IDEA

Students who have a disability that adversely impacts their learning may need an Individualized Education Plan (IEP). The IEP describes the student's educational strengths and needs related to the disability. It also outlines the special education programs and related services, goals, services, classroom accommodations, technology needs, and testing accommodations that the student requires. The High School offers a full continuum of special education services and supports for students with disabilities.

## Related Therapy Services

Students may receive related services (i.e. speech therapy, occupational therapy, physical therapy and counseling) if a need in this area is impacting the student's ability to learn. Related services may be provided within the general education classroom, in a special education classroom, or in a therapy room. Services may be individual or group.

## Resource Room

Resource Room is an instructional program provided by a special education teacher in a group of five students or less. It is a program designed to provide supplementary instruction to students with an Individualized Education Plan who have needs that impact their performance in the general education setting. Students in a Resource Room receive direct instruction to address their individual goals in the areas of reading, writing, math, executive functioning, and/or social-emotional skills.

## Direct Consultant Teacher

This program is for students with an IEP who are pursuing a high school diploma and who need significant support and modifications in the general education program due to reading and math skills that are well-below grade level. Direct consultant teacher support from a special education teacher can be provided in the core courses of Math, Social Studies, Science and English required for a high school diploma.

## Ready for Independence, Success and Employment (RISE)

The RISE Program supports students in grades 9-12 and up to age 22 who are working towards a Skills and Achievement Commencement Credential (SACC). The program provides students with an academic, life skill

based curriculum that focuses on maximizing independence, enhancing opportunities for success within the home and community and preparing for gainful employment in early adulthood.

## College Transition Program

The College-Based Transition Program (CBTP) offers an alternative special education opportunity for students who have graduated from high school with their Skills and Achievement Commencement Credential or Career Development Occupational Standards Credential. Students learn functional academics, audit college courses and volunteer at a variety of potential employment sites on The University at Albany campus. Students work on increasing independence by improving social, communication, employability and self-advocacy skills.

# ART

If a student believes that they may be qualified for a specific course without having completed its prerequisites, the student is welcome to discuss the matter with the art supervisor.

## Studio in Art

Code: 200122 | Grade: 9-12 |

Credit: 1

Studio in Art is a comprehensive foundation course in full compliance with the New York State standards for visual and media arts. Students are engaged in a wide variety of two and three-dimensional experiences in drawing, painting, sculpture, architecture, printmaking, and ceramics. Curriculum units entwine contemporary and historical works of art for reference and inspiration. The Elements and Principles of design are stressed, learned and applied. This course meets the one unit of Fine Arts credit needed for graduation.

## Studio in Media Arts

Code: 200125 | Grade: 9-12 |

Credit: 1

The content of this course is organized to provide students with the foundations of art, with an emphasis on digital design. It is in full compliance with the New York State standards for visual and media arts. Students are engaged in a wide variety of mediums including drawing, painting, photography, film, digital photography, printmaking, and graphic design. Classes are taught in art studio classrooms,

computer labs designed for Media Arts instruction.

Students will use a mix of hands-on and digital tools. This course meets the one unit of Fine Arts credit needed for graduation.

## Drawing and Painting

Code: 200115 | Grade: 9-12 |

Credit: 1 | Pre-Req: Studio in Art or Media Arts.

The objective of this course is to develop observational and technical skills in both drawing and painting. Students will learn to see as an artist and begin to translate and personalize their environment on paper and canvas. It is essential to develop drawing skills before entering the painting realm. The second semester will be devoted to painting techniques, using watercolor and acrylics. The outcomes will be a result of personal challenges, effort and creative problem solving. This course will create a strong foundation for all other art courses and Advanced Drawing and Painting

## Advanced Drawing

Code: 200107 | Grade: 10-12 |

Credit: 1/2 | Pre-Req: Drawing and Painting

Students in this course should expect to further develop their observational skills through

more challenging subject matter. Students will explore creative expression in drawing and the development of their artistic voice. Drawing will remain the focus for portfolio development; however, non-traditional media such as printmaking will be explored. It is expected that the work produced throughout the year demonstrates skill growth, idea development, and process. This course will prepare the student for the advanced capstone level course in Portfolio Art or AP Art and Design. Optional: Three college credits through the Siena College Dual Enrollment program. (DRAWING)

## Advanced Painting

Code: 200108 | Grade: 10-12 |

Credit: 1/2 | Pre-Req: Drawing and Painting, Advanced Drawing highly recommended.

Students in this course should expect to further develop their skills in watercolor, acrylic, and beginning oil painting. Students will deepen their knowledge and experience in these media while exploring a variety of topics. It is expected that the work produced throughout the year demonstrates skill growth, idea development, and process. This course will prepare the student for the advanced capstone level course in Portfolio Art or AP Art and

Design. Optional: Three college credits through the Siena College Dual Enrollment program. (PAINTING)

## Portfolio Art

Code: 200121 | Grade: 11-12 | Credit: 1 | Pre-Req: Studio Art, and at least 2 art credits.

This is a full year class for students interested in creating strong portfolio pieces based on their chosen medium and areas of visual interest.

Students must be proficient in the medium they choose, and have the initiative to take it to a higher level with the teacher as mentor. Areas of concentration include drawing, painting, graphic design, sculpture, printmaking, fashion, photography and film. Portfolio preparation and presentation will be covered to prepare students for college and careers in the Arts or a supplement to college application.

## AP Studio Art—2-D Design/3-D

### Design/Drawing

Code: 200109 | Grade: 11-12 | Credit: 1 | Pre-Req: Studio in Art and 2 art credits.

The AP Studio Art Portfolio class is designed for students who are seriously interested in art. Students are required to submit portfolios for evaluation at the end of the school year. Students will develop a portfolio that is based in 2-D design, 3-D design or Drawing. Students must demonstrate mastery of design in concept,

composition and execution. Student will develop a “Concentration” that represents a body of work that investigates a strong underlying visual idea. Students should have a minimum of 3-units of art to satisfy the “Selected Work” section of the portfolio that demonstrates mastery in their selected media.

**(Summer assignment required.)**

## Fashion and Textile Design

Code: 200113 | Grade: 10-12 | Credit: 1 | Pre-Req: Studio in Art or Media Arts.

This class is for any student that is interested in fashion and textile design. Students will work primarily in textiles, collage, and mixed media art. Students will acquire the basic skills of sketching and fashion illustration, drawing and painting. Lessons will include use of the sewing machine as a creative art tool for design of fashion accessories and wearable art. Students will gain skills in the art of quilting, surface design, embroidery, fabric painting, book making, woven objects, digital printmaking and draping. Students will also go on field trips to fashion centers to enhance overall learning.

## Mixed Media Arts & Design

Code: 200112 | Grade: 10-12 | Credit: 1/2

In this course, you will

experiment and combine various materials using creative layering techniques for personal expression. This class is designed for students who want to explore new ways to work with paper, paint, metal, recycled found objects and media arts. Dripping paint, washes of color, layers of fabric, assemblages will come together to create new and innovative works of art. Students will gain their sense of experimentation, while creating handmade books, altered boxes, sculpture and two-dimensional design.

## Graphic Design

Code: 200127 | Grade: 9-12 | Credit: 1 | Pre-Req: Studio in Art or Media Arts.

This is a full-year course that will introduce students to the power of the media. Students will explore visual media with a critical lens and develop and produce their own digital media. Media will include graphic arts, digital photography, and websites. Students will learn the skills and concepts of digital photography, graphic design, web-design, UX Design and digital integration with visual imagery. This course will focus on the use of computers and the Adobe software for the creation of digital print and online media and will serve as a general introduction to the field of computer art and design.



## Advanced Graphic Design

Code: 200123 | Grade: 10-12 | Credit: 1 | Pre-Req: Advertising Design or permission of the instructor.

This course is designed for those students who are considering a career in graphic design. It will allow students to implement skills learned in a real-world work atmosphere. Students will learn work processes and daily flow of a real "Ad Agency." The curriculum is driven by requests from the school and local community, the stress on deadlines will be profound. Students will expand upon their knowledge of Adobe Photoshop and Adobe Illustrator to complete client job requests. The Ad Agency receives a variety of print media requests such as, but not limited to, logo design, t-shirt graphics, program covers and poster designs. Students will need to have a strong work ethic to be successful in this course. Optional: Three college credits through the Siena College Dual Enrollment program. (GRAPHIC DESIGN)

## Film Making

Code: 200114 | Grade: 10-12 | Credit: 1/2

This course stresses the artistic principles of video communication. It is intended as a survey course in which the students will critique contemporary and historical media and will be introduced to

the basics of digital video production using iMovie, Adobe Premiere and iStop Motion. Highlights include stop-action animation, writing for film using treatments and storyboards, music videos, commercials, and the creation of short films. Students will use HD video cameras and tripods to produce raw footage at school and on location.

## Advanced Film Making

Code: 200126 | Grades: 10-12 | Credit: 1 | Pre-Req.: Film Making.

This program is an intensive yearlong introduction to visual storytelling, digital filmmaking, film theory and television production. Students should have an interest in writing stories, exploring camera and lighting technology, cultivating teamwork and mastering video editing software. Digital Filmmaking is fast paced, teamwork oriented and full of opportunities for learning new skills and self-directed learning. Student practice professional filmmaking techniques. Each student writes and directs short films in order to master setting, character, composition, casting and product placement. Students in this course will run the BC Student News.

## Photography

Code: 200119 | Grade: 10-12 | Credit: 1

This class is designed to introduce the student to the

basic processes of photography, including photography as a fine art and as a practical means of communication. It is an introduction to the use of the camera and the techniques of black and white film processing, printing in a state of the art darkroom, composition and presentation. iPads and Apple computer technology are integrated throughout the course as well. All photography students will use a manual 35-mm SLR camera on loan from the art department or one they already have. Optional: Three college credits through the Siena University Dual Enrollment program. (DIGITAL PHOTO)

## Advanced Photography

Code: 200105 | Grade: 11-12 | Credit: 1 | Pre-Req.:

Photography  
Advanced Photography enables students to further their study of photography by presenting subject matter and techniques that challenge the artistically motivated student. Students will be encouraged to think critically and creatively and to demonstrate their technical photographic knowledge through expressive experimentation. Students will be working in a state of the art dark room and use iPads and a Mac computer lab for a blend of film, digital, and alternative processes in photography. Guest speakers and field

experiences allow students to explore career fields in photography. Optional: Three college credits through the University at Albany. (PHOTOGRAPHY)

## Ceramics

Code: 200110 | Grade: 9-12 | Credit: 1/2

Beginning ceramics is an exploration of all the ways clay is used to create objects. Hand building, slab building, throwing, coiling, and the use of forms will be covered. Creative use of the media and production of personal work is explored, along with stressing craftsmanship of the finished product. Basic wheel throwing will be explored in a brand new ceramics studio. 3D printers will be used to create your personal stamps. An exploration in glaze and surface adornment will incorporate color to the surface. Technology will be used to brainstorm ideas and discover alternate artistic processes explored in class.

## Advanced Ceramics

Code: 200101 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Ceramics.

Advanced Ceramics will build on the skills and knowledge introduced during ceramics. Students will continue applying skills to create more advanced constructions and explore their own creativity using clay as a medium in a brand-new ceramics studio. Hand building, coil building, slab construction,

wheel throwing, glazing, surface treatments and sculptural works will be supported by internet research into the art of ceramics. Digital media will be used to enhance student's exposure to artistic process and research.

## Metal Design

Code: 200116 | Grade: 10-12 | Credit: 1/2

This course is designed for students who wish to create metal art forms of personal adornment. Students will design and produce jewelry using traditional metalsmithing techniques such as piercing, sawing, filing, soldering, polishing and more. Wire, stones, beads, polymer clay and precious metal clay may also be used. Emphasis is on the manipulation of metal as a means of self-expression in creating original, wearable works of art. Research of historical and contemporary metal will serve as inspiration.

## Art Lab: Stained Glass

Code: 200134 | Grade: 9-12 | Credit: 1/2

Explore the art and craft of stained glass through design, color, and light while emphasizing safe studio practices. Students will learn traditional glass-cutting, foiling, and soldering techniques. Both two-dimensional and three-dimensional stained glass construction will be explored, including preliminary design

work, glass cutting, soldering, and cleaning — all performed under strict safety guidelines. Design and color theory, as they relate to stained glass, will also be introduced. Safe and responsible use of tools and materials is mandatory for participation in this course. *The Art Lab topic will change yearly.*

# CAREER & TECHNICAL EDUCATION

If a student believes they may be qualified for a specific course without having completed its prerequisites, the student is welcome to discuss the matter with the district's Career and Technical Education supervisor.

**Business Education Sequence:**  
Five-unit sequences are available. These five-unit sequences may be used to fulfill requirements for an Advanced Regents Diploma.

## BUSINESS EDUCATION

All courses include opportunities for career exploration and/or college credit through HVCC and FMCC.

### Business Communications

Code: 201119-201120 | Grade: 11-12 | Credit: 1/2

This course explores written, verbal, and non-verbal communications as applied to business situations. It includes discussion of the specific types of written business communications forms and graphic aids for successful visual communication; listening skills; resume preparation; interviewing techniques; and group reports and oral presentations. This course is also required within the CTE Pathways to Graduation in Business programs. Students may earn college credit through agreement with Hudson Valley Community College (HVCC).

### Business Law

Code: 201101 | Grade: 11-12 | Credit: 1/2

Business Law is designed to give students a basic understanding of business and

personal law. Topics covered include: foundations of law, court systems, jury duty, criminal and civil law, forms of business ownership, negotiable instruments, credit, bankruptcy, consumer law, renting or owning a home, contracts, employment law, marriage, divorce, child support, wills/estates and insurance law. Students will have an opportunity to visit the Albany County Judicial Court and watch arraignment proceedings and a portion of a criminal trial, as well as, speak with a judge. Students may earn college credit through agreement with Fulton Montgomery Community College (FMCC).

### Business Organization & Management

Code 201103 | Grade: 10-12 | Credit: 1/2

Join us for in-depth study of management, covering the following topics: management

values, attitudes, and emotions; organizational culture; ethics and social responsibility; managing diverse employees; managing in a global environment; decision-making; entrepreneurship; strategy; competitive advantage; organizational structure; human resource management; motivation; leadership; managing groups, conflicts and change; and promoting effective communication and teamwork. Students may earn college credit through agreement with Hudson Valley Community College (HVCC).

### Career Exploration Internship Program (CEIP)

Code: 201104 | Grade 11-12 | Credit ½ or 1 | Pre-requisite: Application Process; coordinator approval.

This course offers a unique opportunity for students to intern at local businesses and be trained by master craftsmen in the chosen area of skilled

learning. The program is a combination of core academic curriculum and practical workbased application to provide an enhanced education, workforce preparation and the ability to learn throughout a lifetime. Headed for college but can't pinpoint what your major should be? Does your college require volunteer or internship hours? Not sure where you're headed after graduation? Take time now to explore your interests and career possibilities at job sites while working alongside professionals performing their duties. In-class hours, minimum number of job sites, and a reflective journal are required. Students are responsible for transportation to job sites.

## Entrepreneurship

Code: 201107 | Grade: 10-12  
| Credit: 1/2

Have you always wanted to run your own business? This course will provide students with the tools needed to become a successful entrepreneur. Students will learn what entrepreneurship is and analyze successful entrepreneurs. They will study business planning, market analysis, types of business ownership, the legal environment, and how to manage the finances of their business. Students will also learn how to manage business processes to ensure the survival and growth of their business. Students may earn college credit through agreement with

Hudson Valley Community College (HVCC).

## GEWEP (General Education Work Experience Program)

Code: 201109 | Grade: 11-12 |  
Credit: 1/2-2.00

The GEWEP (General Education Work Experience Program) is open to any student 16-21 years of age. The program must be registered with the New York State Education Department (NYSED) Career and Technical Education Team and be re-registered every five years. In this course, students will work at a part-time job (job must be secured by student prior to commencement of course) and earn ½ credit for every 150 hours worked, up to a maximum of 2 credits. In addition to the work experience, students will meet once a week in class to develop their employment skills.

## Marketing

Code: 201111 | Grade: 10-12 |  
Credit: 1/2

This course will provide an introduction to marketing. Topics covered include: marketing history, concept and functions; consumer markets; segmenting and targeting consumers; developing new products, managing brands; 4 P's of marketing; advertising; strategies; social responsibility; and global markets. Virtual Retailing Simulation software will be used to assist students in running a business and

making marketing decisions. Students will also manage a school-related marketing campaign. Students may earn college credit through agreement with Hudson Valley Community College (HVCC).

## Personal Finance

Code: 201115 | Grade 9-12 |  
Credit: 1/2

Personal Finance is designed as an introductory business course. It is designed to promote financial literacy among young adults and provide a foundation of knowledge to be successful in other business courses as well as in personal financial management. Business sequence students should take this course in Grade 9 or 10. Students will gain an understanding of and develop the skills needed to be successful in a rapidly changing world. They will explore emerging workplace trends and develop employment skills, including resume writing and interviewing. Additional topics include budgeting, checking and savings accounts, credit, insurance, and investing. Guest speakers will include members of the community from a variety of occupations. They will share their educational backgrounds, career paths, and speak to the students about a typical workday. Junior Achievement—Career Success Skills Program will be taught by a volunteer professional. This course may be paired with another CTE 1/2 credit to fulfill

five credit sequence requirements. Students may earn college credit through agreement with Hudson Valley Community College (HVCC).

## Sports Marketing and Management

Code: 201112 | Grade 10-12 |  
Credit: 1/2

Sports Marketing and Management is a one-semester business elective. This course is designed so students will learn to think like a sports manager and solve problems relating to the sports industry with an emphasis on events planning, scheduling, budgeting, and promotion. Sports theories and philosophies as well as leadership styles will be explored. Topics to be covered include basic management principles, intercollegiate sports, professional sports, press conferences, ethics, and NCAA guidelines. Careers in sports marketing and management will also be discussed. This course will provide students with an understanding of sports as a business. Students may earn college credit through an agreement with Hudson Valley Community College (HVCC).

# FAMILY & CONSUMER SCIENCES

## Adolescent Development and Psychology

Code: 211101 | Grade: 10-12 | Credit: 1/2

This course is to help you better understand yourself. You will develop tools to help you understand what's occurring in your life. Students will examine the physical and psychosocial development of the adolescent, identify stressful situations for adolescents and how to manage these concerns, and identify adolescent crises and healthy ways to cope. Excellent foundation and exploratory for careers in social work, criminal justice, rehabilitation, etc.. This course is offered on an alternate schedule with Family Psychology (Code 211106).

## Child Development and Psychology

Code: 211102 | Grade: 10-12 | Credit: 1/2

If you want to work with children one day and want to learn more about how they "tick," why they do the things they do, or, then this is the course for you. Major topic areas include the study of the child development theories including prenatal care and development, and social, emotional, cognitive, and physical development from birth to 11 years of age. This is all done through class

discussions, group work, role-plays, observations, and guest speakers. Excellent foundation course for anyone interested in working with children. SUNY Cobleskill credit possible if combined with Early Childhood Education.

## Culinary Arts I

Code: 211103 | Grade: 10-12 | Credit: 1/2

*This is a required pre-requisite for Culinary Arts II and strongly recommended for Gourmet Foods and International and Regional Foods.* This course is for anyone who wants to learn to cook or is thinking about a career in Culinary Arts, hotel or restaurant management, nutrition, sports nutrition, or dietetics. After reviewing kitchen safety and sanitation, students will explore all areas of MyPlate through tasty cooking labs and experiences. Three college credits are available through SUNY Cobleskill.

## Culinary Arts II

Code: 211104 | Grade: 10-12 | Credit: 1/2 | Culinary Arts I is a mandatory prerequisite, no exceptions.

Enrollment in this fun class will help you develop baking skills for personal and family enjoyment. Products to be made and enjoyed include cookies, cakes, breads, pies, pastries, crepes and many

more. In addition, students will study nutrients, soups and sauces, beverages and garnishing. Course highlight is the annual Cup Cake Wars. Three college credits are available through SUNY Cobleskill.

## Early Childhood Education

Code: 211105 | Grade: 11-12 | Credit: 1/2 | Pre-Req: Child Psychology strongly suggested, required if seeking SUNY Cobleskill credit.

Are you interested in becoming an Early Childhood Educator or Elementary teacher? This course provides a close look at the roles, requirements and responsibilities of an Early Childhood Educator. Students will learn observation skills, about children's literacy, and will construct a thematic unit which they will implement when we host BC Faculty and Staff's youngest children for a week-long Early Childhood daycare simulation. There will also be an opportunity to observe and work with young children at Eagle Elementary. SUNY Cobleskill credit possible when preceded by Child Dev & Psychology.

## Exploring Teaching as a Profession (ETAP 201)

Code: 201117-201118 | Grade: 11-12 | Credit: 1/2

Thinking about becoming a secondary school teacher?

This course emphasizes the concepts of schooling, changing role of teachers, restructuring schools, examine theories of teaching and learning, and teaching as a career. Students will examine theories of teaching and learning for the purpose of challenging assumptions about today's schools and extending expectations concerning tomorrow's schools. This course will also have a required classroom observation component to learn different techniques of teaching and learning. College credit can be earned through the University at Albany.

## Family Psychology

Code: 211106 | Grade: 10-12 | Credit: 1/2

This course will look at the family and what affects the growth and development of the individuals within it.

Class discussions will include such topics as lifestyle choices, decisions as to whether and when to marry, family communication, financial management in families and family crisis situations (e.g., separation, divorce, remarriage, death of a family

member). Excellent foundation and exploratory for careers in social work, criminal justice, rehabilitation, etc. This course is offered on an alternate schedule with Adolescent Development & Psychology (Code 211101).

## Housing & Interior Design

Code: 211111 | Grade: 10-12 | Credit: 1/2

This course combines art with real estate with skills in drawing, knowledge of interior and architectural floor plans, and a focus on space planning, elements and principles of design students learn through hands-on projects. Topics will include furnishing, decorating styles, green design, home technology, the evolution of homes, and exploration of design styles. career opportunities. This class is ideal for anyone interested in architecture, interior design, real estate or construction. Guest speakers and virtual field trips add authenticity.

## Preparing for College & Independent Living

Code: 211112 | Grade: 10-12 | Credit: 1/2

This course will help students make sense of their world after high school. It will help them to prepare for college, making a plan to get there, how to navigate the social scene, and staying healthy while on a food plan or cooking for themselves.

Students will gain an understanding of financial literacy, values, goal setting, and consumerism, career exploration and readiness, social skills, and every day etiquette. Students will learn through hands-on experiences including cooking in the culinary lab.

## Sustainable Living

Code: 211113 | Grade: 9-12 | Credit: 1/2

Going green can save money and the planet. This course will explore everything from where and why problems exist and how to make changes toward becoming a globally sustainable person. The course will provide students with an understanding of current problems, how to evaluate and explore sustainability and its contributors (solar wind, water power, fair trade etc.), practices (composting, gardening, green cleaning, building methods etc..) and consumerism (eat local, farm to table, decreasing garbage and waste).

# TECHNOLOGY & ENGINEERING EDUCATION

## **Project Lead the Way Sequence:**

Project Lead the Way® (PLTW) is a dynamic national partnership among secondary schools, colleges, universities and engineering industries whose purpose is to increase the quality of graduating high school seniors who plan to pursue a degree in the many fields of engineering and related fields. PLTW is an engineering program which, when combined with Regents-level math and science courses, better prepares students for the rigor of further study beyond high school.

For more information, please contact your school counselor or the department supervisor, Mrs. Jennifer Gonyea, 518-439-4921 ext. 2236.

## **Civil Engineering and Architecture**

Code: 204101 | Grade: 9-12 |  
Credit: 1 | Pre-Req: IED and  
Grade Level Regents Math &  
Science

Civil Engineering and Architecture is a course designed to provide the student with a comprehensive overview of the field of architectural, structural, and civil engineering. The course focuses on the design and planning of residential and commercial structures. Three-dimensional modeling software is utilized by the students to develop the required plans to construct their structures designed in class. Project planning, 3-D modeling, artistic rendering, and student presentations are integrated throughout the course. This class is one of the PLTW classes that may yield college credit. A lab fee will be charged to cover the cost of materials for project work.

## **Computer Integrated Manufacturing**

Code: 204102 | Grade: 9-12 |  
Credit: 1 | Pre-Req: IED and  
Grade Level Math & Science  
Understanding and applying computer technology in the field of manufacturing is a fundamental skill for any engineering or technical degree student. CNC material processing is the key to manufacturing in the 21st century. This course is designed for any student with a career interest in engineering or materials processing technology. Students will experience hands-on machining applications utilizing the latest technologies in CAD/DDP and computer controlled machining technologies. The core of the CIM curriculum will focus on a variety of topics including the physical properties of materials, CAD/CAM, computer programming, machining processes, G&M coding and

machine operation, Cartesian Coordinate System, 3-D modeling, laser engraving, prototype development, roles of robotics in modern automation, and related career opportunities. This class is one of the PLTW classes that may yield college credit. The lab fee will be charged to cover the cost of materials for project work.

## **Advanced Placement Computer Science Principles**

Code: 204115 | Grade: 9-12 |  
Credit: 1 | Pre-Req: IED or  
Discovering Computer Science  
and Algebra I

Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles



helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber security, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum. Students will take the AP Computer Science Principles exam in May.

## Digital Electronics

Code: 204103 | Grade: 9-12 | Credit: 1 | Pre-Req: IED and Grade Level Regents Math & Science

This course is designed as a comprehensive study in the field of digital electronics and solid-state applications. Students will design, construct, test, and fabricate a variety of complex digital circuits. Curriculum content will include: basic electron theory, basic electronic components, TTL vs CMOS chip design and applications, digital logic circuits, Boolean algebra, flipflop and sequential logic applications, shift registers and counters, gates, and digital circuit combinations. This class is one of the PLTW courses that may yield college credit. A lab fee will be charged to cover the cost of materials for project work. NOTE: Simultaneous enrollment in Electronics and DE is prohibited.

## Electronics

Code: 204104 | Grade: 10-12 | Credit: 1  
Students will develop the

basic knowledge and skills required to work with electrical circuits and electrical equipment. Students will work with series and parallel circuits, resistors, capacitors, transformers, transistors and integrated circuits and learn the skills of soldering, bread boarding, wiring, circuit layout and manufacturing print circuit boards. Students will work individually and as a team to experiment, construct and problem solve various types of circuits using transistors and integrated circuits. All students will construct and take home projects relating to the course objectives such as a power supply, amplifier, transistor and integrated circuits. A lab fee may be charged to cover the cost of materials for project work. NOTE: Simultaneous enrollment in Electronics and DE is prohibited.

## Engineering Design and Development

Code: 204105 | Grade: 11-12 | Credit: 1 | Pre-Req: IED & POE

In this engineering research course you will work in teams to research, design and construct a solution to an open ended engineering problem. Problems will involve a wide range of engineering applications (e.g., a school robo-mascot, automated solar water heater, remote control appliances). Students will apply principles learned in their engineering courses and

maintain a portfolio of their work. Each team will be responsible for delivering progress reports and making final presentations of their project to a review panel. The completed portfolio will be invaluable as students apply to college. A lab fee will be charged to cover the cost of materials for project work.

## Introduction to Engineering and Design (IED)

Code: 204106 | Grade: 9-12 | Credit: 1 | Suggested

background: Grade level Regents Math & Science IED is the foundation technology course in which students will learn basic 3-D drawing techniques. Students will create computer drawings in the following technical areas: one-view drawings, geometric construction problems, dimensioning, three-view drawings, sectional and auxiliary views of mechanical parts and full three-dimensional drawings of mechanical parts. This course meets the NYS graduation requirement for one unit of Fine Arts. This class is one of the PLTW courses that may yield college credit. A lab fee may be charged to cover the cost of materials for project work.

## Principles of Engineering

Code: 204109 | Grade: 9-12 | Credit: 1 | Pre-Req: IED and successful completion of Algebra 1.

This course is designed to help students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes will help you learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit society. The course also includes concerns about social and political consequences of technological change. Students will have the opportunity to use computers, CAD/DDP, machine tools, computerized machines, materials and processes to perform their investigative work. This class is one of the PLTW courses that may yield college credit. A lab fee will be charged to cover the cost of materials for project work.

## Power Mechanics 1

Code: 204107 | Grade: 9-12 | Credit: 1/2

This course is designed to provide students with an overview of the nature of energy conversion related to internal combustion engines and the small engines industry. Students will learn the basic technical skills and knowledge necessary to become proficient in servicing and/or repairing internal and external

combustion engines. Students will learn about gasoline, diesel, steam and solid fuel engines including small engine overhaul, troubleshooting, hydraulics, pneumatics, fluid power action, and explore careers available in each area. A lab fee will be charged to cover the cost of materials for project work.

## Power Mechanics 2

Code: 204108 | Grade: 9-12 | Credit: 1/2

This course is designed to continue the study of energy conversion with a concentration in the areas of automotives, alternate energy, and introduction to automobile engines including the systems of ignition, lubrication, cooling, drive train, emission braking and suspension, troubleshooting design, computers and electronics. Students will also study various transportation systems used on land, sea and air and will explore careers available in each area. A lab fee may be charged to cover the cost of materials for project work.

## Network

### Programming 1

Code: 204113 | Grade: 10-12 | Credit: 1

This Cisco Academy course introduces the architecture, structure, functions, components, and models of the internet and computer networks. The principles of IP addressing and fundamentals

of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This class describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, singlearea and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

## Network

### Programming 2

Code: 204114 | Grade: 11-12 | Credit: 1 | Pre-Req: Network Programming 1

This Cisco Academy course offering will allow students to complete their CCNA certification exam in June. This class describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP,

and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. This class discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skill needed to implement IPSec and virtual private network (VPN) operations in a complex network. A student fee is required to register for the certification exam.

## Woodworking 1

Code: 204110 | Grade: 10-12  
| Credit: 1/2

This course is designed to provide the student with the opportunity to study and experience various tools and techniques used in producing wood products. Students in Woodworking will receive related and technical information in the following areas: planning and basic drawing, hand tools, fixed power tools joinery, wood fasteners, forestry, hardware, stains and finishes and industrial careers. A lab fee will be charged to cover the cost of

materials for project work.

## Woodworking 2

Code: 204111 | Grade: 10-12  
(Gr. 9 with supervisor approval)  
| Credit: 1/2 | Pre-Req:  
Woodworking 1

This course is designed for students who have completed the introductory woodworking class and are ready to expand their skills. Students will work on more challenging, personalized projects using techniques they've acquired. This course emphasizes precision, creativity, and problem-solving, preparing students for more complex projects or a career in a skilled trade. A lab fee will be charged to cover the cost of materials for project work.

# CAPITAL REGION BOCES CAREER & TECHNICAL SCHOOL

Students earn 4 units for each year of study in one Career & Tech area.

## **Automotive Collision Technology**

is a two-year program in which students learn about ever-changing materials, methods and technology in this high-paying industry. Students explore career opportunities as well as participate in a work-based learning experience at various local collision repair centers. Students repair damaged vehicles back to pre-accident condition. They learn the proper way to repair vehicles per the manufacturer's recommendations. Students perform high-tech welding methods such as MIG and STRSW as well as nitrogen plastic welding. Students will repair, replace and align body panels on various vehicles as well as spray single-stage paint, base coat, clear coat and three-stage pearl finishes. From the initial estimate to the final detail, students learn what is needed to get cars looking good again. Students also work towards industry level certifications.

## **Automotive Services/Small**

**Engine Repair** is a career studies program for IEP students who want to learn hands-on at an alternative pace. and is designed for students who are interested in working on vehicles and small engines and want to learn both in the classroom and in a hands-on garage. Students learn about basic automotive and small-engine maintenance and repair, general service station duties and exhaust

and engine systems. They work on donated and student vehicles and engines and build key skills such as teamwork, communication and customer service, preparing them for entry-level employment and/or for the more advanced, two-year Auto Trades Technology course.

## **Automotive Trades Technology**

teaches students to repair and maintain a variety of vehicles. Students will learn to locate, diagnose and repair mechanical problems by using modern test equipment and tools.

Recommendation: Automotive Systems Technology and three years of high school math.

**AYES/Automotive Technician** is a program that is ASE/NATEF certified and is supported by General Motors and Chrysler Corporations. Students participate in an internship with a local automotive dealership and are prepared to test for ASE certification upon completion of the program. AYES/Auto Technician students also earn up to 13 college credits through agreements with HVCC, Penn Tech, SUNY Morrisville, Universal Technical Institute and the University of Northwestern Ohio. -Recommendation: Pass Math A Regents.

**Building Trades** Students in the Building Trades program learn through standardized craft training programs developed by the National Center for Construction

Education and Research (NCCER) and gain valuable experience through on- and off-campus projects. They learn about safety, green construction and reading blueprints along with receiving extensive training in home energy efficiency. Students who pass the written exams and performance tests gain a portable skill set and may earn OSHA certifications, which are recognized by contractors and employers across the country. Recommendation: Pass Math A Regents.

**Carpentry Services** is a career studies program for IEP students who want to learn hands-on at an alternative pace. Individuals trained and experienced in carpentry and building maintenance are always in demand in construction, finishing and rehabilitation of homes, office buildings, schools, hospitals, stores, parks and hotels. Students learn the skills needed for entry-level positions in the construction and building maintenance fields. Upon completion, students may continue their studies in the Building Trades program, through our Adult Education program or other institution.

**Cosmetology** is a two-year program in which students learn the competencies and skills needed to pass the New York state practical and written licensing exams through a program that

meets the state-required 1,000 hours of instruction.

A summer program provides an opportunity for students to complete the 120 hours of study needed to meet the 1,000-hour state licensing requirement. Students will apply theory and skills, and strengthen competencies through hands-on experiences including a clinic open to the community and a salon internship. Academics are integrated, and students may earn college credits through articulation agreements with SCCC, FMCC, SUNY Cobleskill, and Bryant & Stratton. An internship totaling 125 hours is also required. Students will be required to purchase their own kit.

**Criminal Justice** students learn about the history, theory, practices and latest developments in security, law enforcement and criminal justice. Topics include the police, court and prison systems, operation of security and protection programs, and procedures in public, commercial and residential settings. Hands-on learning teaches patrolling and investigative skills, including radio use, note-taking, evidence gathering, and dealing with safety hazards and emergency situations, as well as lifting fingerprints, photographing and diagramming crime scenes, using surveillance cameras. Criminal Justice students also study civil and criminal law. Students completing the program may enter the profession or continue their education at college or law enforcement or protection academies. Those who are 18

or older may test for the New York State Security Officer certification.

**Culinary Arts & Hospitality** is a program certified by the American Culinary Federation and features the ProStart and ACF ACCESS curricula. Students learn about nutrition, food preparation and dining room operation and can earn the nationally recognized ServSafe Sanitation certification. Students also can earn college credits through an agreement with SCCC, SUNY Cobleskill, SUNY Adirondack, Penn Tech, and MVCC.

**Culinary Arts Tech Prep/College in the High School** enables high school seniors to earn up to 15 college credits through agreements with SCCC, SUNY Cobleskill, Johnson & Wales University and New England Culinary Institute. Students may enroll as seniors or move up to Culinary Arts Tech prep after taking Culinary Arts as juniors.

**Culinary: Food Services** provides special needs students with the opportunity to pursue a career in the culinary and hospitality industries. Course content is geared to the special needs of students and their potential work opportunities. Students develop skills necessary to work toward placement in a food service position, institutional setting or another Culinary Arts program.

**Diesel Tech (1 & 2)** students work on late-model trucks and diesel engines, learning about electrical and electronic theory, computerized control systems, steering, suspension, chassis and braking systems. They also learn

about alternative fuels including biodiesel, and about hybrid vehicle technology. Automotive Service Excellence (ASE)-style testing during the Medium/Heavy Duty Truck Repair program prepares students to pursue certification after graduation. Upon completion, they may seek employment as entry-level technicians or advance their education and training. Medium/Heavy Duty Truck Repair at Career & Tech is the only high school-level program in the state to earn certification by the National Automotive Technician Education Foundation/Institute for Automotive Service Excellence (NATEF/ASE).

**Digital Media Design** prepares students for creative careers in web design, multimedia communications, graphic design and other related areas. During the two-year program, students develop professional level skills in Adobe software applications. They learn to apply design processes and design theory in order to improve the quality and consistency of their work. In addition to digital output, the classroom lab provides specialty printing experiences including wide format poster and banner printing, dye sublimation printing on metal, ceramics and textiles as well as t-shirt transfer printing. Students demonstrate their technical abilities through the Adobe Certified Expert Program. In a two-year period, it is possible for students to earn up to five industry recognized certifications. This combined with work samples provides students with the opportunity to graduate with

an impressive portfolio. Students completing the program are prepared for rigorous college and post-secondary programs and/or qualified for entry-level jobs within the visual communications field. Students may earn college credits through articulation agreements with Bryant & Stratton, HVCC, FMCC, MVCC, SUNY Cobleskill and SCCC, as well as Russell Sage College (College in High School)

### **Early Childhood Education**

prepares students for entry-level employment or further education training while learning the fundamentals of how a child develops. Students will learn the basics and methodology of child development for infants/toddlers/preschoolers and young children. Students will also learn how to communicate and work with parent/guardians and staff in an educational setting. Through on-site work-based learning in a daycare center, students also gain formal childcare hours required to apply for Child Development Associate (CDA certification).

**Electrical Trades** provides classroom instruction and on-site activities in the installation, troubleshooting and repair of residential and commercial electrical wiring systems. Training is given in the installation and maintenance of motors, generators and control equipment used in homes, offices, stores and factories. Students may earn advanced standing in the National Joint Apprenticeship and Training Committee (NJATC) and may earn college credits through agreements with HVCC, SUNY Delhi, SUNY Adirondack, MVCC,

SUNY Alfred, and SUNY Morrisville. Recommendation: Construction Systems Technology.

### **Game Design and Implementation**

is a two-year program for students interested in the creative worlds of video game design, 2-D and 3-D art asset creation, and programming in Unity and #C. Students will learn the history of games from ancient times to present. They create board games, card games and dice games while learning the fundamentals of Game Design. Students will create digital games using Game Maker software, GameSalad and Unity. Students will explore various art concepts during the first year and 3D modeling during the second year. Finally, students will design their own video games in groups as well as create a virtual video game design company. Upon completion of the program, students gain focus for higher education potential in specific fields including: game designer, 2D or 3D artist, animator, quality assurance (video game tester), and programmer.

### **Global Fashion Studies**

prepares students for careers and higher education in fashion, apparel and accessories, business and marketing. Year one focuses on fashion merchandising, and year two focuses on marketing and retailing. Topics of study include garment theory, textiles, manufacturing, sales, promotion, and career and college opportunities. Students learn through specialized software, hands-on projects, lectures and guest speakers, videos, field trips, work-based learning and community

service. They work together to design, research, produce and sell their own product and create professional portfolios. Upon completion, students may enter the workforce or advance their education at colleges such as the Laboratory Institute of Merchandising, Fashion Institute of Technology in Manhattan, Rhode Island School of Design, Buffalo State, and SUNY Oneonta.

### **Heavy Equipment Repair and Operation**

Experienced construction professionals and equipment operators are in high demand. This two-year program is based on the National Center for Construction Education and Research (NCCER) curriculum. Students will learn how to operate and maintain large, construction-related equipment. Types of equipment may include backhoes, dozers, front-end loaders, and excavators. Students will also learn how to diagnose and repair common issues with diesel engines and heavy machines. The program enjoys specialized training at corporate sites, as well as instructional opportunities at our education centers, field trip experiences, internships, and job shadowing opportunities. In addition, students will have the opportunity to practice essential skills on our state-of-the-art simulators to further enhance the learning experience. Students also learn about drone usage on job sites and in various careers. Students who pass the written exams and performance tests gain a portable skill set and may earn professional certifications (including OSHA 10), which are recognized by contractors and employers across

the country. Upon graduation from this program, students will have the option to pursue several career opportunities. Students may earn college credit through articulation agreements with SUNY Alfred, SUNY Cobleskill, and Penn Tech.

### **HVAC/R-Heating and**

**Refrigeration** instructs students in the installation and repair of residential and commercial heating, ventilation, air conditioning and refrigeration systems. Students are prepared for certification by the Environmental Protection Agency (EPA), and they develop the mechanical skills and theoretical background necessary to enter the workforce or college. Students can earn college credits through agreements with HVCC, SUNY Delhi, FMCC, MVCC, SUNY Alfred, SUNY Canton, SUNY Cobleskill, and University of Northwestern Ohio. Recommendation: Math A Regents.

### **Manufacturing & Machining**

**Technology** is a two-year program in which students focus on skilled manufacturing, machining and advanced manufacturing, and learn how products are taken from concept to consumer using the latest technology to compete in a global marketplace. They learn computer-aided design (CAD), engineering drawing and sketching and a number of computer programs used in today's highly technical manufacturing operations. Students benefit from partnerships with such advanced manufacturers as Package One, STS Steel, Greno Industries Inc., Simmons Machine Tool, PVA and Atlas Copco, which offer

opportunities for field trips, job shadowing and internships. Developed in cooperation with local businesses and industries, colleges and professional associations, this program is working to meet our region's growing demand for advanced manufacturing professionals. *It is recommended that students enrolling in this math-intensive program have a strong foundation in mathematics.*

**Network Technology:** Every city in America is wired with either copper or fiber optic cables. As society becomes more and more reliant on instantaneous communication and broadband access, the importance and need for the skill sets learned in this program grows. Network technicians install the network cables that connect computers, routers, data centers, wireless antennas and energy management systems. The Network Technology program utilizes CTech, an international workforce development company specializing in industry recognized certificates. Using these certificates, students can hit the ground running in careers in network cabling and broadband infrastructure installation or have a head start on careers as they pursue further education. Additionally, this program includes training in wireless systems and antenna installation which are crucial to the roll-out of 5G across America. Many certification opportunities are open to students enrolled in the program.

**Pet Tech** is a one-year program designed for IEP students who are interested in working with

small domestic animals to learn basic care in preparation for a career in the pet care industry. Pet Tech students learn basic care skills for animals, including pet grooming, washing and best practices for boarding animals. Students also learn about customer service, written and spoken communication, office and computer skills, phone etiquette, budgeting and money management, inventory and ordering, advertising, basic accounting and business math — all skills necessary to operate in a business and retail setting. Pet Tech also builds skills in problem solving and organizing.

**Plumbing Technology** The Plumbing Technology course is a comprehensive, hands-on one-year program designed to prepare students for entry-level positions in the plumbing industry. Students learn essential skills, including safety protocols, plumbing math, and blueprint reading, while working with various piping materials such as plastic and copper. The course covers key plumbing systems such as drain, waste, and vent (DWV) systems, water distribution, and the installation of fixtures like sinks, faucets, and toilets. Students will also explore environmentally sustainable practices, including the use of PEX piping, greywater recycling systems, and solar water heaters. The curriculum emphasizes professionalism, plumbing codes, and career readiness, culminating in a capstone project where students design, install, and troubleshoot a small-scale plumbing system.

**Retail and Office Services** is a program that is designed for IEP students who are interested in working with others in an office, retail or customer service setting and want to learn basic, business related skills. Students learn about customer service, written and spoken communication, office and computer skills, budgeting and money management, inventory and ordering, advertising, basic accounting and business math. Additionally, students will build skills in problem-solving, organizing, business and telephone etiquette, and working as a team. They rotate through internships in retail and office locations. Students also work hands-on at the Campus Store as well as in the classroom.

The **Sterile Processing Technician** program will teach students how to decontaminate, inspect packages, and sterilize equipment and devices used in the health care environment. These items range from complex devices to simple, hand-held surgical instruments. Technicians serve a vital role in the health care industry, combating the spread of hospital-borne illnesses, as well as diseases. Students will learn what it takes to enter this industry and even gain clinical experience at Albany Medical Center and Ellis Medicine. Sterile Processing Technicians find employment in hospitals, ambulatory surgical centers, medical laboratories, birth centers and other facilities where sterilized equipment is needed.

**Two-Year Sequence of Health Careers** is a two-year program that offers students an

opportunity to enter the health care industry. Students will work towards earning certification as a Home Health Aide (HHA)/ Personal Care Aide (PCA) and a Certified Nurse Assistant (CNA) during their junior and senior years. Students can earn college credit through articulation agreements with SCCC, Maria College, and Bryant & Stratton. Students will earn CPR and American Health Association First Aid certifications. The program sequences are broken down as follows: **(Year 1) Home Health Aide/Personal Care Assistant (HHA/PCA):** Students will learn through clinical training and classroom preparation how to provide valuable skills in conjunction with professional nurses in a home health care setting. Services range from health related tasks such as obtaining vital signs to doing laundry, personal care, and housekeeping. Students will complete required hours in a clinical setting. **(Year 2) Certified Nurse Assistant/ Personal Care Assistant (CNA/PCA):** Students will learn total patient care through training in the classroom and off campus. They prepare to take the Certified Nurse Assistant examination that qualifies CNAs to work in any nursing home in New York State. Students will complete 108 hours of clinical work in a nursing home setting.

**Vocational Training & Transition** is a career studies program for IEP students who want to learn hands-on at an alternative pace. They learn marketable job skills and improve their interpersonal abilities. The program features a campus store, copy and mailing center, bindery and lamination

service, and courier service. Students also have the opportunity to apply their skills at local businesses including Crossgates Mall, Peter Harris and Price Chopper.

**Welding & Metal Fabrication** students learn the skills and techniques necessary for success in a career that values well-trained, experienced workers. They learn shielded metal arc welding (stick); MIG, flux-cored and TIG welding; and automated Orbital TIG welding. They also learn about the operation of welding and metal fabrication machinery, blueprint reading, clean room environments and shop theory. Students may earn college credits and take multiple American Welding Society welder certification tests free of charge. Upon completion, they are prepared to seek employment or go on for more advanced training at a technical school or college.

**New Visions: Health Careers** is a one-year, honors-level program designed for seniors interested in a career in medicine. This is a competitive, rigorous, immersion-based program. Students obtain up to 130 observation hours in 30 different clinical rotations. Clinical rotations take place at area hospitals and off-site clinics. Students learn about different health-related careers through clinical rotations, guest speakers, medical grand rounds, and field trips. The course provides an integrated curriculum that covers the subject areas of bioethics, anatomy and physiology, public health policy, economics of healthcare, and explores the role of government in health care.



# ENGLISH

If a student believes they may be qualified for a specific course without having completed its prerequisites, the student is welcome to discuss the matter with the district's English supervisor.

## Language is:

- A means of thinking creatively, persuading, exploring new worlds, making informed and reasonable judgments, analyzing, critiquing, comparing and contrasting ideas.
- The personal connection with classic and contemporary text, diversity of cultures and familiarity with all literary genres and forms.
- The ability to acquire and transmit knowledge by identifying cause and effect, supporting a thesis, discerning fact from opinion, gathering evidence, and presenting information in a format which includes correct use of the rules and spelling, capitalization, punctuation, grammar, structure and appropriate conventions. It uses a wide range of forms including the use of technology to present information and to develop text.

## British Literature Honors

Code: 202104 | Grade: 11-12 | Credit: 1 | Pre-Req: English 10 teacher recommendation.

This is a survey course encouraging critical reading of 1,000 years of literature of Great Britain. The major literary periods studied are Anglo-Saxon, Medieval, Elizabethan, Age of Reason, Romantic, Victorian, and the 20th century. In addition, students read several major works. Writing is an integral part of the course, closely tied to the reading, discussion, and analysis of literary selections. Writing assignments encourage higher level thinking skills through analysis, synthesis, evaluation and criticism. Example assignments include one research project, literary criticism and interpretation,

satires, imitations, and thesis development essays.

## English 9

Code: 202112 | Grade: 9 | Credit: 1 | Pre-Req: English 8  
The reading selections are drawn from a variety of sources and accommodate various student abilities. In all cases, selections include novels, short stories, plays, non-fiction and poetry. The course integrates writing with this genre approach to literature. Students learn the skills of organization and development of examples to support opinions.

## English 10

Code: 202108 | Grade: 10 | Credit: 1 | Pre-Req: English 9  
A variety of literary sources is used to bring students to an understanding of the structure of literary forms, style, and themes. The literary program

also aims to develop analysis and critical study of literature. Listening and speaking skills are sharpened through individual reports, group reports and dramatization of plays. The writing program will focus on creative and expository writing, including practice of Regents tasks.

## English 9 Honors

Code: 202113 | Grade: 9 | Credit: 1 | Pre-Req: English 8 and summer assignment.  
The English Honors course is designed to provide students possessing high interest and ability in English with a course sequence that challenges their intellectual capabilities. Students should have demonstrated superior performance in using effective reading, discussion, language, critical thinking and problem solving skills. The course will

provide an intensive writing program integrated with a genre approach to literature. While an open enrollment policy will be followed, it is critical for students and parents to recognize that instructional and assessment practices will be consistent with advanced English classes. It is important that a student consult with their school counselor and eighth-grade English teacher. **A summer assignment is a requirement of this course.**

## English 10 Honors

Code: 202109 | Grade: 10 | Credit: 1 | Pre-Req: English 9H or 9, and teacher recommendation.

The English Honors course is designed to provide students of high interest and ability in English with a course sequence that challenges their intellectual capabilities. The literary program also aims to develop analysis and critical study of literature. Listening and speaking skills are sharpened through individual reports, group reports and

dramatization of plays. The course will provide an intensive writing program, which will include expressive, narrative, expository and persuasive writing. While an open enrollment policy will be followed, it is critical for students and parents to recognize that instructional and assessment practices will be consistent with advanced English classes. It is important that a student consult with their school counselor and ninth-grade English teacher. **A summer assignment is a requirement of this course.**

## EXCEL English 10

Code: 202115-202114 | Grade: 10 | Pre-Req: Counselor-teacher recommendation.

All students in the course must also enroll in corresponding EXCEL Global History 10. *See Interdisciplinary Studies, p. 39.*

## English 11-3

Code: 202111 | Grade: 11 | Credit: 1 | Pre-Req: English 10. Writing in this course consists

of composition based on literary works, personal experience and individual interests, with an emphasis upon strengthening individual student writing skills. The study of literature focuses on short novels, short stories, plays, essays, and nonfiction works. Training in language continues to emphasize expository writing skills and review of Regents tasks.

## English 11: American Literature

Code: 202110 | Grade: 11 | Credit: 1 | Pre-Req: English 10. Students will employ four full-length literary works, short stories, and poems to read, write, listen to, and analyze; master designated vocabulary; review ninth and 10th-grade grammar elements and master 11th-grade grammar elements; review Regents tasks, review standardized test content and format, and complete timed essay writing

**All students must take the English Regents.** The following electives are available to all 11th and 12th graders. Juniors may select certain electives in addition to their required year-long English 11 course. It is advisable that one course be a literature-based course and one a writing course. Instruction on writing the college essay is given in each writing course.

## Advanced Placement English Literature & Composition

Code: 202103 | Grade: 12 | Credit: 1 | Pre-Req: English 11 and recommendation of an 11th-grade English teacher. This Advanced Placement course requires the study and practice of writing. Students in this course are encouraged to come to their own conclusions about the text and defend them in both written and verbal contexts. Writing assignments include practice in critical analysis of fictional or poetic forms. Students are also engaged in the critical reading and analysis of literature's relationship to contemporary experience as well as to the times in which it was written. Students will read and analyze contemporary and classical literature from diverse perspectives from William Shakespeare to Toni Morrison. It is recommended that students have a 90 percent or better average in their previous English courses, including the Regents Examination. The Advanced Placement Exam is required of all students taking this course. The fee charged by the College Board must be paid by Nov. 1 on Linq Connect. **A summer assignment is a requirement of this course.**

## Advanced Placement English Language & Composition

Code: 202141 | Grade: 11-12 | Credit: 1 | Pre-Req: English 10 and recommendation of a 10th-grade English teacher. It is strongly recommended that students have earned a 90+ course average in English 10. This Advanced Placement course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. Students will read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Writing consists of evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students analyze, argue, and synthesize in the 3 major areas of writing. The Advanced Placement Exam is required of all students taking this course. The fee charged by the College Board must be paid by Nov. 1 on Linq Connect. **A summer assignment is a requirement of this course.**

## College Composition Jr./ College Composition Sr.

Code: 202129, 202140 | Grade: 11-12 | Credit: 1/2  
This writing course is for students who are interested in improving their writing skills as

well as in expanding their experience writing in different writing genres. Objectives include understanding that writing is a process, identifying the elements of good writing, using student, teacher and professional writing as models, and understanding the way mechanics can affect style, tone and flow. Writing genres addressed in the course may include fiction, the college essay, personal reflection, argumentation/persuasion, and research. Students will read several short works and may read an extended work of fiction or nonfiction as determined by the teacher.

## Contemporary Literature

Code: 202105 | Grade: 11-12 | Credit: 1/2  
This course will focus on critical reading of many themes manifested in contemporary literature. Contemporary literature can be defined as "of this moment," or a reflection of current trends in life and culture. Students will read excerpts from contemporary best sellers. Reading selections for this course are also drawn from novels, memoirs, short stories, essays, etc. Writing assignments will include analysis of contemporary (current) themes and there will be a focus on discussion of these themes. Course expectations include essays, oral presentations, creative

projects and a critical evaluation of a contemporary self-selected novel.

## Creative Writing

Code: 202106 | Grade: 11-12 | Credit: 1/2

This course is designed to give students an introduction to the world of writing creatively. Readings will focus on how authors employed certain techniques to produce effect. Assignments will direct students' writing in the practice of those techniques, such as writing a creative non-fiction, satire or fiction. Because this is a course in the fundamentals, we will look at stories, one-act plays and narratives to see what makes them effective and then practice those techniques in writing our own original narratives and short stories. At the end of the 20 weeks, a portfolio (literary magazine style) will be submitted for a final exam grade containing creative pieces of writing from class. The portfolio should reflect the student's growth as a writer.

## Criticism in Film

Code: 202147 | Grade: 11-12 | Credit: 1/2

This course serves as an introduction to analyzing and appreciating the art of film. The course will focus on how we understand the textual elements of cinema: narrative, symbolism, characterization, and plot. Students will also examine how content is

reflected in the technical formal elements of cinema:

cinematography, mise en scene, editing, and sound. Significant American films will be used to study these techniques of film making and film genre.

Students are expected to read film criticism, think critically about the art of filmmaking, and hold group discussions about film. Several papers are required throughout the course.

## The Female Voice in Literature

Code: 202142 | Grade: 11-12 | Credit: 1/2

This course will explore the female perspective in literature and multimedia. It will focus on students reading, analyzing, and discussing works of fiction and non fiction by female authors. In addition to the reading, the class includes weekly video presentations of female leaders in the field of entertainment, music, arts, politics, journalism, business, the military, or activism. We will compare and discuss their point of views and influence in their fields to the reading. A variety of novels will be covered and may include the following titles:

*The Purple Hibiscus*, *The Handmaid's Tale*, *The Glass Castle*, and *American Dirt*.

Students will be expected to read independently, develop their own point of view, and discuss regularly to learn and examine how the female point of view plays a role in literature

and society.

## How to Live Happy

Code: 202143 | Grade: 11-12 | Credit: 1/2

This course will explore the current literature on how to achieve happiness in one's life. It will focus on students reading, analyzing, and discussing research and multiple perspectives in order to gain an understanding of how they might achieve contentment.

## Major Novels

Code: 202124 | Grade: 11-12 | Credit: 1/2

Works range from well-known and respected American, French, English and German titles of the 19th and 20th centuries to provide background in the development and growth of the novel form as well as solid reading for serious students. Novelists studied include Austen, Melville, Dickens, Kafka and Camus. Supplemental readings will examine related poetry, short stories, and essay selections from various time periods and cultures. Course expectations include reading and writing for literary response and expression and critical analysis and evaluation.

## Modern Media

Code: 202118 | Grade: 11-12 | Credit: 1/2

This course is designed to allow students to study the many facets of print and broadcast

media. Units focus on the role of newspapers, magazines, radio, television and the Internet in the world of communications. Students are encouraged to be active participants in the school newspaper and any other media opportunities that may arise in the future (e.g., a school TV and radio station). Modern Media is a course that allows hands-on learning opportunities, as well as a chance to tap the community for guest lecturing appearances (TV news anchors, newspaper editors, photographers, cartoonists, reporters, directors, cameramen, etc.)

## Poetry Today

Code: 202125 | Grade: 11-12 | Credit: 1/2

This course will expose students to a variety of poetry genres, forms, themes and styles. Students will write critical analyses, explore poetic forms and techniques and generate original works. These will be shared in read arounds as we attempt to build community. Original works will also be submitted to The Thinking Reed, the school's literary magazine. The goal is to be a published poet! By taking this course, students will become more confident readers, writers and analysts of poetry. As a final assessment, students will generate a portfolio of analyses and original work.

## Pop Lit and Film (ENGL 220-Literature Into Film)

Code: 202126 | Grade: 12 | Credit: 1

A look at several types of popular short works of fiction, nonfiction, and film. Some of the selections will include horror, mystery, adventure, recently published stories and paperbacks, mass media and film. The course will focus on reading and viewing for understanding and analysis through both in-class reading assignments and opportunity for independent reading choices. Follow-up writing instruction will focus on clarity, organization and development. Particular reading selections will include short stories, excerpts from novels and nonfiction works, magazine and newspaper articles, full-length best-sellers and classic and modern films. Students may earn college credit through an agreement with HVCC.

## Professional Communication

Code: 202138 | Grade: 11-12 | Credit: 1/2

This course provides instruction and practice in a wide array of written and spoken communication modes. Objectives include identifying elements of, and practicing techniques to enhance, effective writing and presentations at the college and career levels. Forms of

output addressed in this course include formal report writing, technical and functional writing, business presentations, and personal and professional correspondence using technology and social media. Students will receive instruction and feedback on their college admissions essay (first semester only). A formal presentation using technology will be a major component of this course.

## Public Speaking

Code: 202127 | Grade: 11-12 | Credit: 1/2

This course stresses writing, delivery, and evaluation of original speeches. Students must present personal, informational, and persuasive demonstration speeches individually and, at times, in small groups or panels. Vocal aspects of delivery are analyzed such as volume, breath control, enunciation, and fluency. Also studied are gestures, facial expression, eye contact, movement and presentational aids. The students will learn to be more articulate and confident in a public speaking situation, to develop speech writing techniques, to develop material through research, to understand criteria for evaluating speeches, and to improve listening skills. At the end of the course, students prepare and deliver a final speech, which reflects individual progress throughout the semester.

## Sports Literature

Code: 202130 | Grade: 11-12 |  
Credit: 1/2

Students will explore the world of sports through literature and multimedia, both fiction and nonfiction. Through reading and writing, students will gain an appreciation for the role of sports literature in the broader world of literature. The economics, history and science of sports will be studied. There will be a particular emphasis placed on the role of sports in society, as well as athletes and events that transcend the world of sports. Readings may include *In These Girls, Hope Is a Muscle*, *Jackie Robinson and the Integration of Baseball*, *The Greatest Player Who Never Lived* and *Little League Confidential*, as well as various short stories and excerpts. Students will also view and discuss “Hoop Dreams,” “When We Were Kings” and “The Legend of Bagger Vance,” as well as documentaries on the tragedy in Munich and “The Miracle on Ice.” Students will

be expected to write analytical and creative essays, as well as complete small group projects and participate in daily class discussions. The course will finish with a presentation and research project that will be a major grade in the second marking period of the class.

## Story of Rock & Roll

Code: 202146 | Grade: 11-12 |  
Credit: 1/2

This course will explore music and culture through the decades beginning in the late 1950s and continuing to the present. Student choice is a driving force behind this course as they will select artists, music, and events during each of these decades that helped shape popular culture. Students will engage in literary analysis of contemporary music lyrics, memoirs, books, essays, and images that defined the culture of the late 20th and early 21st centuries. Typical assignments include class discussions, projects and presentations,

papers, reflections, reviews and critiques, and creative writing.

## Critical Reading and Writing for College

Code: 203136 | Grade: 12 |  
Credit: 1

This course is designed to prepare students for their first year of English Composition in college. Students will work on improving their ability to critically read and analyze their writing. The research process will be a central focus of the course. Students will increase their ability to craft informative, reflective and argumentative writing, and research papers. Students will work on their college essays during the first quarter. Group collaboration and presentation skills will also be practiced. This class will also allow ENL students and native English speakers to improve their communication skills through interacting with those with similar and differing backgrounds.

# HEALTH & PHYSICAL EDUCATION

Physical education grades are included in quarterly and year-end academic averages.

## Athletic Physical Education Exemption (Full Year)

Grade: 12 | Credit: 1/2

This program is open to seniors only who will be members of two Bethlehem Central varsity athletic teams during their senior year and meet the requirements outlined below. Additional information and applications are available in the Supervisor's office. Athletic exemption Option requires all of the criteria below are met for consideration:

1. Student must be a senior.
2. Student must be up to date with their physical education credit.
3. Student must have passed each component of the Fitnessgram assessment.
4. Student must be a bona-fide member of at least two interscholastic varsity sports at Bethlehem Central. Students in a Spring sport must have been a member in good standing as a junior in that varsity sport. (i.e. played varsity baseball as a junior and will be playing as a senior)

5. Application submission no later than the last day of classes.
6. Applications are available at: [PE Opt Out Application Form](#).

## Health Education

Code: 210101 | Grade: 10-12 | Credit: 1/2

This is a graduation requirement preferably taken during the 10th-grade year. Topics include Self Management, Stress Management, Goal Setting, Decision Making, Communication, Relationship Management, Advocacy, and Hands-Only CPR/First Aid. During each topic, various skills will be learned to allow students to better understand overall well-being and the importance of applying those skills throughout their lives in order to promote lifelong health.

## Physical Education 9-10

Code: 209131 - 209132 | Grade: 9-10 | Credit: 1/2

The grade 9-10 PE curriculum focuses on the principles of health fitness, educational karate, aquatics and track & field. This course also focuses on team sports. This course is taught in a sport education model with emphasis on principles of sport and

coaching. The second semester is Project Adventure. The program focuses on problem solving, teamwork, trust communication, cooperation and personal goal setting.

## Physical Education 11-12

Code: 209105-209106 | Grade: 11-12 | Credit: 1/2

The courses in Physical Education 11-12 will focus on the development of skills, knowledge and positive attitudes in individual lifetime activities, outdoor pursuits and wellness. Each class will include a unit on instruction from one of the following areas: Team Sports (Basketball, Flag Football, Floor Hockey, Soccer, Ultimate Frisbee, Volleyball,) Target Sports (Archery, Bowling, Golf, Frisbee Golf,) Net Games (Badminton, Pickleball, Table Tennis, Tennis,) Outdoor Pursuits (Adventure Education, X-C Skiing, Orienteering) or Personal Activities (Ballroom Dance, Fitness, Yoga.)

## Strength and Conditioning for Sport and Fitness

Code: 209130 | Grade: 11-12 | Credit: 1/4

This course will provide students with an opportunity for the development of strength and conditioning for

various sports, fitness related activities and general strength and fitness training. Free weights, exercise machines and conditioning activities will be incorporated to promote improvement in strength, endurance, flexibility, balance, power, coordination, agility, and speed. Proper technique, safety precautions and proper application of the Principles of Training, as well as sports nutrition, will be emphasized. Individualized plans to achieve sport-specific goals and/or personal fitness goals will be developed and implemented throughout the course.

confidence while ensuring safety is of the utmost importance in all activities.

## Unified Physical Education

Code: 209133-209134 | Grade: 9-12 | Credit: 1/4

Unified PE provides a unique opportunity for students with and without disabilities to come together through ongoing educational and physical activities. The goal of this course is to provide an environment where students can apply the skills learned and bonds created in the wider community setting. Students focus on various movement concepts, skill composition, team play, improving overall physical strength while creating a more inclusive school environment where individual differences are embraced and all students are accepted. This course also focuses on healthy habits, providing opportunities to develop movement



# INTERDISCIPLINARY STUDIES

## EXCEL Program

Grade: 9-12 | *Pre-Req: Counselor-teacher recommendation.*

EXCEL Interdisciplinary Team:

- |                          |        |
|--------------------------|--------|
| ○ EXCEL English 10       | 202114 |
| ○ EXCEL Algebra I B      | 205137 |
| ○ EXCEL Science 10       | 207114 |
| ○ EXCEL Global 10        | 208110 |
| ○ EXCEL Freshman Seminar | 211107 |
| ○ EXCEL Tutorial 9       | 287100 |
| ○ EXCEL Health           | 210102 |

EXCEL is a team-based concept designed to help students develop a positive attitude about school. Its ultimate goal is to accommodate at-risk students by providing an alternative program that will enhance their educational success and also address areas in the affective domain. Strategies are utilized that provide meaningful educational, emotional and social learning situations. The goal is to build confidence and a positive self-image through nontraditional techniques, while still meeting the requirements of the Regents-For-All curriculum in all core areas. Class sizes are limited to 15 students, allowing for more individualized instruction.

Tutorial is utilized as a reinforcement of instruction in the four core areas. It is also an opportunity to incorporate our mentoring program to better address the real-life concerns of the students and the affective domain. The program focuses on academic supplements, team-building, community service and connections. Tutorial meets, daily, during the last period of the school day.

### EXCEL English 10

Code: 202114 | Grade: 10 | Credit: 1 | Pre-Req: English 9. EXCEL 10 continues the student-centered philosophy of EXCEL 9. The literature is a mixture of young adult titles and classic literary titles. Students respond to the literature using a variety of writing tasks and reading approaches. Assignments are adjusted to student learning styles. Literary titles include *To Kill a Mockingbird*, *The Kite Runner*, *The Catcher in the Rye*, *Macbeth*, *The Lord of the Flies*, *One Flew Over the Cuckoo's*

*Nest*, and other possible titles.

Supplementary literature includes short stories, poems, and creative nonfiction. Areas of instruction are a continuation and progression of instructional areas begun in Grade 9 EXCEL. This course meets the requirements of the ELA standards and includes instructional opportunities required by the English Regents examination.

### EXCEL Global History 10

Code: 208110 | Grade: 10 | Credit: 1 | Pre-Req: Social Studies 9.

This course is the final segment of a two-year global history curriculum. The course will culminate in a Regents exam. The exam is a graduation requirement for all students. Beyond the continuous development of social studies skills and historical analysis, the course will examine the history of the world from the late 18th century to the present day. The

program is structured around the NYS Learning Standards for Social Studies and is designed to integrate the central themes identified by the National Council for the Social Studies.

## **EXCEL Algebra I B**

Code: 205137 | Grade: 10 | Credit: 1 | Pre-Req: Successful completion of Algebra I A.

This course is designed for students who have previously experienced difficulty with math, and it finishes the algebra material begun in Algebra I A. This course provides a second year of math credit and prepares students to take the NYS Regents Examination in Algebra I as their final exam.

## **EXCEL Science 10**

Code: 207114 | Grade: 10 | Credit: 1 | Pre-Req: EXCEL Science 9.

EXCEL Science 10 completes the two-year academic program on Life Science: Biology, culminating in the Biology state assessment which students are required to pass in order to graduate from high school. Class is scheduled for six periods per week with the sixth period providing for laboratory experience. Students are required to

complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam. The topics addressed by this course will be reproduction and development, genetics and evolution.

## **EXCEL Freshman Seminar**

Code: 211107 | Grade: 9 | Credit: 1/2 | Pre-Req: Students will be recommended for Freshman Seminar through grade 8 teachers. Every other day students will attend the seminar which is instructed by a FACS teacher. Topics covered during this course are selected to ease the transition of students into high school and ensure academic success at this level. Topics will include time management, mindfulness, organization, career exploration, and vocational skills. On the days that students are not in the seminar, they will be with their core curriculum teachers for supplemental instruction and work support.

## **EXCEL Tutorial 9**

Code: 287100 | Grade: 9 | Credit: | Pre-Req: Students will be recommended for Tutorial 9

through grade 8 teachers. The Tutorial period will provide a flexible support option for students requiring additional assistance in any of the four core academic areas (ELA, Math, Science, Social Studies). Tutorial will function as: targeted academic support, skill reinforcement, and organizational and executive functioning support.

## **EXCEL Health**

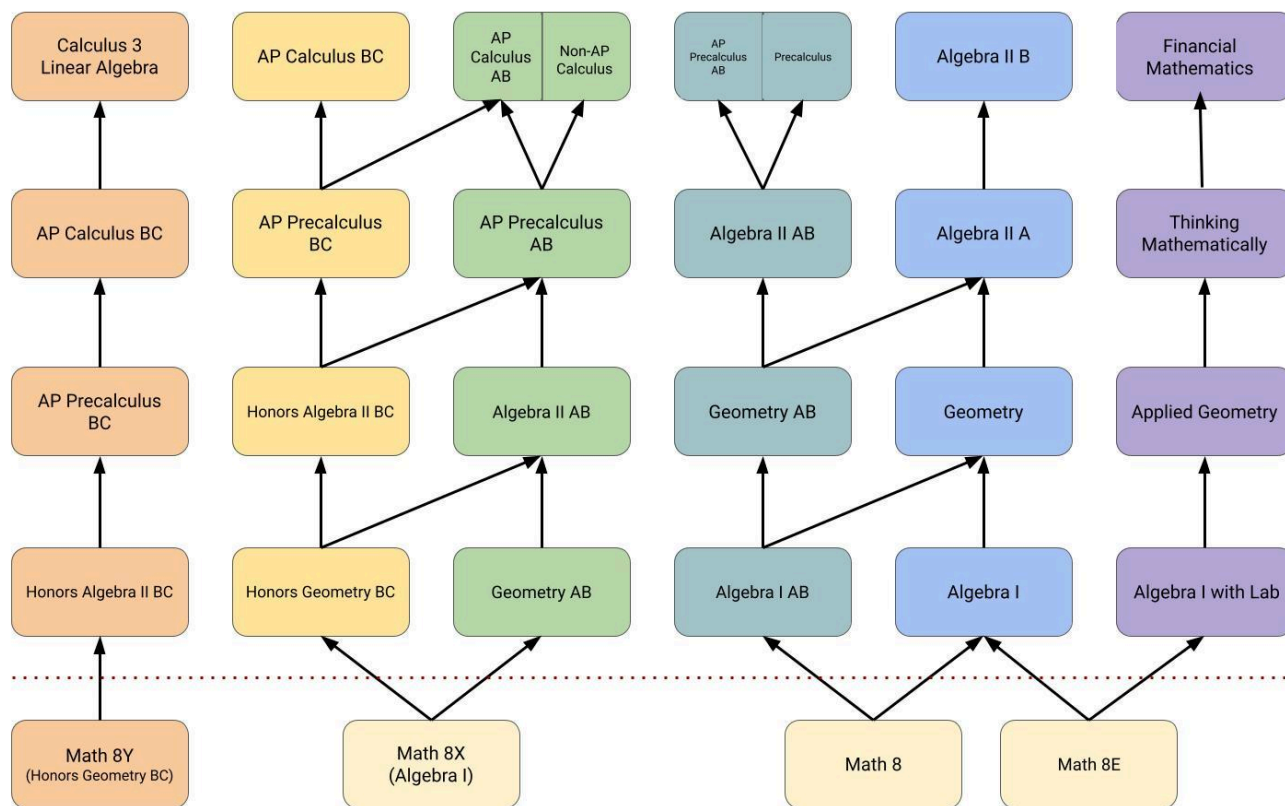
Code: 210101 | Grade: 10 | Credit: 1/2 | Pre-Req: Must be enrolled in 3 or more EXCEL Classes.

This class is taught in conjunction with EXCEL Tutorial 10. Every other day, students will attend health class, which is instructed by a health teacher. The EXCEL Tutorial teachers and the Health teacher will work in collaboration to create meaningful small group work for students to complete that will meet the requirements of the mandated State curriculum for Health. On the days that students are not in the Health, they will meet with their core curriculum teachers for supplemental instruction and work support, in preparation for the Regents examinations.

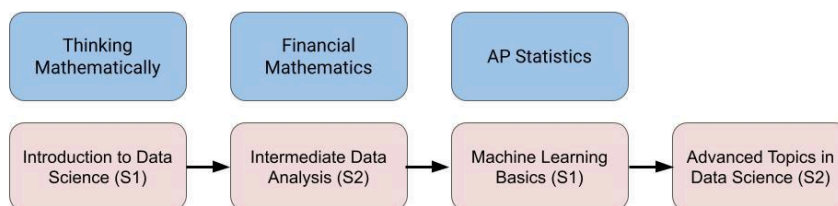
# MATHEMATICS & COMPUTER SCIENCE

The Mathematics Department offers a variety of courses at each grade level to maintain interest and to encourage students of all abilities to continue their study of mathematics. The courses are designed to prepare students for success in their future lives by developing mathematical skills, knowledge and awareness that will allow them to adjust to inevitable societal change.

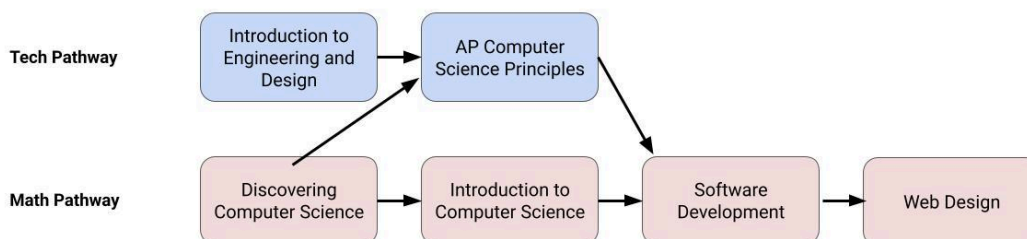
## Math Courses Offered and Sample Sequences



### Electives



## Computer Science Courses Offered and Sample Sequence



## Graphing Calculators

The NumWorks graphing calculator is required in all courses. They will be used in daily lessons, assignments, and assessments throughout the year to develop students' mathematical reasoning and skills to appropriately use technology to aid in problem solving. Handheld units will be made available for students to use in the classroom setting. An emulator is available on student Chromebooks. The emulator can also be installed on personal devices (Computer, Tablet, Smart Phone).

## Algebra I AB

Code: 205138 | Grade: 9 |

Credit: 1 | Pre-Req: Math 8

This course is designed for students of higher ability that have had success and are interested in math. It teaches all topics associated with elementary algebra, linear and quadratic functions, inequalities and absolute value, coordinate geometry, probability and statistics as delineated in the Next Generation Algebra I Learning Standards published by New York State Department of Education. This course will also include topics not included in the Next Generation Algebra I curriculum that will help better prepare students for more advanced mathematics, i.e. Algebra II AB, Precalculus, and Calculus. The Algebra I Regents exam will be taken at the end of this course.

## Algebra I

Code: 205121 | Grade: 9-12 |

Credit: 1

This course is designed for students of average ability that have had success and are interested in math. It teaches all topics associated with elementary algebra, linear and

quadratic functions, inequalities and absolute value, coordinate geometry, probability and statistics as delineated in the Next Generation Algebra I Learning Standards published by New York State Department of Education. The Algebra I Regents exam will be taken at the end of this course.

## EXCEL Algebra I B

Code: 205137 | Grade: 10-11 |

Credit: 1 | Pre-Req: Successful completion of EXCEL Algebra I A.

This course is designed for students who have experienced difficulty with math. It finishes the algebra material begun in Algebra I A. This course provides a second year of math credit and prepares students to take the Regents Exam in Algebra I as their final test. This course is also listed under Interdisciplinary Studies, page 39.

## Honors Geometry BC

Code: 205120 | Grade: 9-10 |

Credit: 1 | Pre-Req: Successful completion of 8th Grade Accelerated Math.

This course is designed for students who demonstrate

exceptional mathematical skills; those in the upper twenty percent of their class in math ability. In addition to the material covered in Geometry AB, the work in many units will be developed and explored at a greater depth and higher level of difficulty. Assessments will reflect this challenge level. The Regents Exam in Geometry is taken at the end of the course.

## Geometry AB

Code: 205115 | Grade: 10-11 |

Credit: 1 | Pre-Req: Successful completion of Algebra I and Teacher Recommendation.

This course is designed for students of higher than average ability who have had success and are interested in math. This course includes enrichment beyond the regular Geometry course. The Regents Examination in Geometry is taken at the end of the course.

## Geometry

Code: 205118 | Grade: 10-11 |

Credit: 1 | Pre-Req: Successful completion of Algebra I.

This course is designed for students of average ability who experienced some difficulty with Algebra I. It teaches all topics associated with geometric relationships,

constructions, locus, proofs, transformational geometry, and coordinate geometry as delineated in the Next Generation Geometry Learning Standards published by the New York State Department of Education. The Regents Examination in Geometry is taken at the end of the course.

## Applied Geometry

Code: 205110 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of EXCEL Algebra I B.

This course follows Algebra 1B is designed for students who have experienced difficulty with math but wish to continue their study of traditional mathematics. It covers a selection of geometry topics (emphasizing areas not involving proof) and provides a third year of math credit. Students enrolled in the course will take a local final exam at the end of the course. Students who have successfully completed Algebra I or Algebra IAB are not eligible to enroll in this course.

## Honors Algebra II BC

Code: 205119 | Grade: 9-11 | Credit: 1 | Pre-Req: Successful completion of Honors Geometry BC.

This course is designed for students who demonstrate exceptional mathematical skills: those who are in the upper twenty percent of their class in math ability. In addition to the material covered in Algebra II, the work in many units will be

developed in even greater depth and explored at a higher level of difficulty. Assessments will reflect this challenge level. The Regents Examination in Algebra II is taken at the end of the course.

## Algebra II AB

Code: 205114 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of Honors Geometry BC or Geometry AB or teacher recommendation. This course is designed for students of higher than average ability who have had success and are interested in math. It teaches and enriches all topics associated with algebraic operations, variables and expressions, equations and inequalities, patterns, functions, and relations, coordinated geometry, trigonometric functions, measurement, and statistics and probability as delineated in the Next Generation Algebra II Learning Standards published by the New York State Department of Education. The Regents Examination in Algebra II is taken at the end of the course.

## Algebra II A

Code: 205102 | Grade: 11 | Credit: 1 | Pre-Req: Successful completion of Geometry or Geometry AB and Geometry Regents Exam. This course is designed for students with average ability who would benefit from a slower-paced presentation. It is the first year of a two-year

sequence, preparing students for the Regents Examination in Algebra II in January of their second year.

## Algebra II B

Code: 205133 | Grade: 12 | Credit: 1 | Pre-Req: Successful completion of Algebra II A. This course is designed for students with average ability who would benefit from a slower pace presentation. This is the second year of a two-year sequence and prepares students to take the Regents Exam in Algebra II in January. The remainder of the year will focus on introductory Pre-Calculus.

## Advanced Placement Pre-Calculus BC

Code: 205131 | Grade: 10-11 | Credit: 1 | Pre-Req: Successful completion of Honors Algebra II BC. This course is for students who wish to prepare for AP Calculus BC and the Calculus 3/Linear Algebra sequence. It will cover all topics in Pre-Calculus at a more rapid pace and then beginning AP Calculus topics, allowing full coverage of AP Calculus BC topics the following year. Students who have not completed Honors Geometry, Honors Algebra 2 and Trigonometry will not have sufficient preparation to enter this class. The Advanced Placement Examination is required of all students taking this course. The fee charged by

the College Board must be paid by November 1 on Linq Connect.

## Advanced Placement Pre-Calculus AB

Code: 205128 | Grade: 10-12 | Credit: 1 | Pre-Req: Successful completion of Honors Algebra II BC or Algebra II AB.

This course is for students who wish to prepare for AP Calculus AB or Calculus 1 at the college level. Topics include the real number system, the coordinate plane, functions and graphing techniques, circular functions, vectors, space, polynomial functions, transcendental functions, polar coordinates, sequences and series, limits of functions, rates of change, and integrals. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## Pre-Calculus

Code: 205134 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of Algebra II AB.

This class will cover a diverse set of topics. We will build on some previously learned topics and will introduce new ones. The goal is to introduce higher level math topics, and higher levels of mathematical thought that will prepare students for college level courses. We will also explore some topics from the study of area students for college level courses. We will

also explore some topics from the study of discrete mathematics. Topics will include: Polynomial and Rational functions, Trigonometric functions, Analytic Geometry, Vectors, Graph Theory, Linear Programming, Linear Algebra and Matrices, Sequence and Series, and an introduction to Calculus.

## Advanced Placement Calculus BC

Code: 205105 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of Honors Pre-Calculus BC.

This is the second advanced placement course in mathematics. Topics include differentiation, applications of the derivatives, the definite integral, transcendental functions, techniques of integration, applications of the definite integral, geometry in the plane, sequences and series and elementary differential equations. Success in the course requires advanced mathematics skills and extra preparation. Students will not be admitted without Honors Pre-Calculus credit. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## Advanced Placement Calculus AB

Code: 205104 | Grade: 11-12 |

Credit: 1 | Pre-Req: Successful completion of Honors Pre-Calculus BC or Pre-Calculus AB. This is the first advanced placement course in mathematics. Topics include differential calculus of algebraic functions, integral calculus of algebraic functions, geometric and physical applications of integration and the calculus of elementary transcendental functions. Success in the course requires advanced mathematics skills. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## Calculus

Code: 205129 | Grade: 12 | Credit: 1 | Pre-Req: Successful completion of LS Math 4 or Pre-Calculus or Pre-Calculus AB. This course covers the study of Calculus topics such as functions, limits and continuity, differentiation and integration. It is designed to permit the student to take more advanced courses in college, both in mathematics and subject areas that require a background in Mathematics.

## Calculus 3

Code: 205113 | Grade: 11-12 | Credit: 1/2 | Pre-Req: Successful completion of AP Calculus BC.

This course is designed for students who have completed Advanced Placement Calculus prior to their senior year. Topics include vectors, motion

and curvature, spatial geometry, functions of several variables, multiple integrals and vector fields. This course may be taken for college credit through a partnership with HVCC.

## Linear Algebra

Code: 205127 | Grade: 11-12 | Credit: 1/2 | Pre-Req: Successful completion of AP Calculus BC and Calculus 3. This course is designed for students who have completed Calculus III prior to their senior year. Topics include: linear equations and matrices, determinants, vectors and vector spaces, linear transformation and matrices and eigenvalues and eigenvectors. This course may be taken for college credit through a partnership with HVCC.

## Advanced Placement Statistics

Code: 205106 | Grade: 9-12 | Credit: 1 | Pre-Req: Successful completion of Honors Algebra II BC or Algebra II AB. Students will be exposed to four broad conceptual themes (1) Exploring Data: observing patterns and departures from patterns, (2) Planning a Study: Deciding what and how to measure (3) Anticipating Patterns: Producing models using probability and simulation, (4) Statistical Inference: Confirming models. The AP Exam is required of all students taking this course. The

fee charged by the College Board must be paid by Nov. 1 on Linq Connect.

## Thinking Mathematically

Code: 205107 | Grade: 12 | Credit: 1 | Pre-Req: Successful Completion of 3 years of high school mathematics at the applied level. Thinking Mathematically builds proficiency with fundamental tools of mathematics, such as arithmetic, algebra, geometry, functions, graphs, and statistics. They teach students precise quantitative logical reasoning and applications of mathematical problem-solving skills. The course will explore real-life applications, including consumer mathematics, the math of voting and apportionment, and the math of efficiently planning a multi-stage project.

## Financial Mathematics

Code: 205111 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of EXCEL Algebra I B or Applied Geometry. Foundations is Personal Finance is a comprehensive course to provide students an opportunity to learn, practice, and apply important personal finance knowledge and skills. The course is aligned with National Standards for Financial Literacy.

## Introduction to Data Science

Code: 205144 | Grade: 9-12 | Credit: 1/2 | Pre-Req: None | S1 Only  
Introduction to Data Science is a foundational course designed to introduce students to the exciting world of data science. This course provides a comprehensive overview of data science concepts, basic Python programming skills tailored for data science applications, and essential techniques for data analysis. By the end of this course, students will have a solid understanding of how data can be used to make informed decisions and solve real-world problems.

## Intermediate Data Analysis

Code: 205145 | Grade: 9-12 | Credit: 1/2 | Pre-Req: Introduction to Data Science | S2 Only.  
Building on the foundational skills acquired in Introduction to Data Science, Intermediate Data Analysis is a course designed to deepen student understanding and proficiency in data analysis. This course delves into advanced data analysis techniques, sophisticated statistical methods used in data science, and advanced data visualization with Python. By the end of this course, students will be equipped with the skills necessary to tackle more complex data challenges and



draw meaningful insights from data.

## Machine Learning Basics

Code: 205146 | Grade: 10-12 | Credit: 1/2 | Pre-Req: None | S1 Only.

Machine Learning Basics is an engaging and hands-on high school course designed to introduce students to the fundamental concepts of machine learning. Students will also differentiate between supervised and unsupervised learning and cover basic machine learning algorithms. By the end of the course, students will have a foundational understanding of how machines can learn from data to make predictions and decisions, preparing them for more advanced studies in artificial intelligence and data science.

## Advanced Topics in Data Science

Code: 205147 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Machine Learning Basics | S2 Only.

Advanced Topics in Data Science is a challenging and comprehensive course designed for students who have completed Machine Learning Basics. This course delves into deep learning fundamentals, explores the ethical considerations in data science, and culminates in a capstone project where students apply their knowledge to a real-world data science problem. By the

end of this course, students will have advanced their understanding of data science techniques and be well-prepared for further studies or careers in the field.

## COMPUTER SCIENCE

Computer Science emphasizes a variety of problem solving techniques and exposes students to new and different ways of thinking. There is also an emphasis on the relationships between computer science and other subject areas. Computer science develops students' computational and critical thinking skills and shows them how to create, not simply use, new technologies. This fundamental knowledge is needed to prepare students for the 21st century, regardless of their ultimate field of study or occupation.

## Discovering Computer Science

Code: 205140 | Grade: 10-12 | Credit: 1

This course is designed as an introduction to computer science for high school students who want to express themselves creatively and solve problems that are interesting to them using computational devices and designed for students that have little or no experience studying computer

science. Through a series of engaging, hands-on labs and projects, students learn the fundamentals of computer programming using the block-based language Snap! Students will also study the World Wide Web, designing and creating their own website using HTML, CSS, and JavaScript. Finally, students will explore drawing, animation, and problem-solving using Python. Throughout the course, computing history and current events in computer science will be incorporated. Special topics in computer science such as encryption, human-computer interaction, rapid prototyping, and others may be explored.

## Introduction to Computer Science

Code: 205135 | Grade: 10-12 | Credit: 1

This course is a broad introduction to a variety of fundamental topics in computer science. Students will consider problems in an application area that can be solved with software. Students will be introduced to important areas of computer science including abstraction, computer organization, representation of information, history of computing, ethics, and the development and evaluation of algorithmic solutions using an appropriate programming environment. This course may be taken for college credit through a partnership with Siena College.



## CSIS 120 Software Development

Code: 205130 | Grade: 10-12 |  
Credit: 1 | Pre-Req: AP  
Computer Science Principles or  
Introduction to Computer  
Science

CSIS 120: An introduction to the object-oriented design paradigm with an emphasis on problem solving, algorithm development, and implementation of algorithms as computer programs in an object-oriented language. Other topics will include data representation, programming

style, program testing and analysis of algorithms. This course may be taken for college credit through a partnership with Siena College and is also aligned with the AP CS A curriculum allowing students an opportunity to challenge the AP exam if they choose.

## Web Design

Code: 205141 | Grade: 11-12 |  
Credit: 1

This is an introductory course where students will learn the fundamentals of designing web pages that are functional, accessible, extensible, and aesthetically pleasing. Students will: Build web pages using

HTML with links, images, tables, and forms, use style sheets (CSS) to add colors, backgrounds, text format, page layout, and basic animations, design web sites that display properly on mobile and touch screen devices, learn about and build sites that meet accessibility requirements, explore cultural differences affecting design considerations.

# MUSIC

## Advanced Placement Music Theory

Code: 206101 | Grade: 10-12 | Credit: 1 | Pre-Req: Music Theory.

AP Music Theory expands upon information and conceptual understandings from Music Theory, with an emphasis placed on composition, performance, and aural skills development. The principles of 4-part harmony, rhythm, and form and analysis will be studied in depth with a focus on compositional techniques from representative musical periods. The Advanced Placement Examination is required of all students enrolled in this course. The fee charged by the College Board must be paid by November 1 on Ling Connect.

## Choraliers

Code: 206104 | Grade: 10-12 | Credit: 1 | Pre-Req: Audition required.

Choraliers is a choir composed of students who are musically proficient and capable of performing a wide variety of choral literature, representative of styles from the Renaissance to the present. This music includes folk, classical and madrigal styles. Public performances are stressed and required from all members.

## Choristers

Code: 206105 | Grade: 9-12 | Credit: 1

Open enrollment.

Choristers offers a comprehensive musical experience for students interested in being part of a choral ensemble. The ensemble sings music from a variety of styles. Practical experience in music reading and voice production and choral theory are provided to the student. Public performances are stressed and required from all members.

## Concert Band

Code: 206106 | Grade: 9-12 | Credit: 1 | Pre-Req: Previous band experience.

Concert Band is designed to provide a musical experience for students interested in developing their technical proficiency on individual instruments and to gain a broader appreciation of music. All Concert Band students are required to participate in the weekly instrumental class lesson program devoted to the development of individual musicianship through progressive studies and exercises. Students are expected to be able to perform at a NYSSMA Level III as a soloist and maintain this standard while in this program.

## Concert Orchestra

Code: 206107 | Grade: 9-12 | Credit: 1 | Pre-Req: Previous

orchestral experience.

Concert Orchestra is designed to provide a musical experience for students interested in developing their technical proficiency on string instruments and to gain a broader appreciation of music. All concert orchestra students are required to participate in the weekly string instrumental class program devoted to the development of individual musicianship through progressive studies and exercises. Students are expected to be able to perform at a NYSSMA Level III as a soloist and maintain this standard while in this program.

## Symphony Orchestra

Code: 206108 | Grade 9-12 | Credit: 1 | Pre-Req: Audition required.

Symphony Orchestra is designed to provide a complete orchestral experience to students who are musically proficient and capable of performing at NYSSMA Level V-VI as a soloist. The Symphony Orchestra will perform exemplary samples of literature from the repertoire for the symphony orchestra with an emphasis on reinforcing and strengthening individual musicianship. Each student is required to participate in the

weekly string instrumental class lesson program for instruction so as to continue individual proficiency.

## Philharmonic Orchestra

Code: 206114 | Grade 10-12 | Credit: 1 | Pre-Req: Audition required.

Philharmonic Orchestra is designed to provide a complete orchestral experience to students who are musically proficient and capable of performing at NYSSMA Solo Level V-VI. The Philharmonic Orchestra will perform exemplary samples of literature from advanced orchestral repertoire, with an emphasis on reinforcing and strengthening individual musicianship. Each student is required to participate in the weekly string instrumental class lesson program.

## Music Technology and Production

Code: 206115 | Grade: 9-12 | Credit: 1

This hands-on course introduces students to the creative and technical principles of music technology and production. Students will gain experience using audio hardware, digital audio workstation (DAW), and MIDI controllers to create, perform, record, edit, and produce music. Students will build a diverse portfolio of musical works through both individual and collaborative projects, with

an emphasis on music composition using technology. This course is aligned to the New York State Music Standards and fulfills the one unit high school arts credit requirement.

## Music Theory

Code: 206110 | Grade: 9-12 | Credit: 1 | Pre-Req: Music reading skills required. Music Theory introduces students to the study of melodic, rhythmic, and harmonic structures of notated music. Through listening, performing, writing and analyzing music, students will develop a deeper understanding and skill in the technical elements of music. Units of study include pitch, rhythm, keyboard skills, principles of melody and harmony, and aural skills.

## Symphonic Band

Code: 206111 | Grade: 9-12 | Credit: 1 | Pre-Req: Audition required.

Symphonic Band is composed of students who are musically proficient and capable of performing at NYSSMA Level IV-V as a soloist. Every effort is made to maintain a well-balanced instrumental ensemble, which will perform exemplary literature from the repertoire for Symphonic Band. All Symphonic Band students are required to participate in the weekly instrumental class lessons to continue the basic instruction to develop instrumental proficiency.

## Wind Ensemble

Code: 206112 | Grade: 11-12 | Credit: 1 | Pre-Req: Audition required.

Wind Ensemble is composed of students who are musically proficient and capable of performing at NYSSMA Level V-VI as a soloist. Every effort is made to maintain a smaller, well-balanced instrumental ensemble, which will perform exemplary literature from the repertoire for Wind Ensemble and Symphonic Band. All Wind Ensemble students are required to participate in the weekly instrumental class lessons to continue the basic instruction to develop instrumental proficiency.

# SCIENCE

The science department offers many different high school science courses and sequences to provide for a variety of student needs, aspirations and interests and to ensure that all students achieve national and state science education standards. Since these courses and sequences have been carefully developed, it is important for students to achieve the prerequisites described below for each course prior to registering for that course.

## Advanced Placement Biology

Code: 207103 | Grade: 11-12 |

Credit: 1 | Pre-Req: Honors (Regents) Biology and Honors (Regents) Chemistry.

Advanced Placement Biology provides students with the opportunity to pursue an in-depth study of general biology through a laboratory-based approach. College course credit or placement may be obtained through the Advanced Placement Biology Exam. Emphasis will be placed on cooperative laboratory activities, statistical analysis of data, reading the textbook to support class notes, and developing critical thinking skills. Students should expect to devote a moderate amount of time beyond the scheduled class periods to complete notes, laboratory activities, assignments, and projects. Areas of study will include Biochemistry, Cells, Enzymes, Photosynthesis, Cellular Respiration, Cell Communication, Cell Division, Hereditary and Molecular

Genetics, Regulation of Gene Expression, Natural Selection/Evolution, and Ecology. Class is scheduled for six periods per week with the sixth period providing for lab work. The fee charged by the College Board must be paid to the school by November 1 on Linq Connect. It is recommended that the student have a score of 85+ in Honors Biology and Honors Chemistry (90+ in Regents Biology and Regents Chemistry). A recommendation from the previous science teacher is strongly suggested.

## Advanced Placement Chemistry

Code: 207104 | Grade: 11-12 |

Credit: 1 | Pre-Req: Honors Earth Science (Regents) and/or Honors Biology (Regents) and Honors Chemistry or Regents Chemistry. Students must have successfully completed Algebra, Geometry, and Algebra 2. It is strongly recommended that students be in Pre-Calculus or Calculus and have earned a 90+ course average in Algebra, Geometry, and Algebra 2 and

an 80+ course average in Honors Chemistry or a 90+ course average in Regents Chemistry.

Advanced Placement Chemistry is a second year chemistry course designed for students who wish to study at the college level. Students may obtain college credit or placement by taking the Advanced Placement Examination in Chemistry. Areas of study include: Atomic Structure, Periodic Table, Chemical Bonding and Molecular Structure, Chemical Reactions and Stoichiometry, Solids, Liquids, and Gases, Solutions, Chemical Equilibrium and Kinetics, Thermochemistry, Acids and Bases, Redox and The science department offers many different high school science courses and sequences to provide for a variety of student needs, aspirations and interests and to ensure that all students achieve national and state science education standards. Since these courses and sequences have been carefully developed, it is important for students to achieve the prerequisites

described below for each course prior to registering for that course. Electrochemistry, Nuclear Chemistry, and Organic Chemistry. Appreciable use of mathematics is required for many problem-solving areas and for the theoretical and experimental aspects of this course. The Advanced Placement Examination in Chemistry is also required for all students taking this course. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## Advanced Placement Environmental Science

Code: 207105 | Grade: 11-12 | Credit: 1 | Pre-Req: Earth Science (Regents) and/or Biology (Regents), and a High School Chemistry.

This course is designed to provide students with the scientific principles and methods required to understand the interrelationships of the natural world, to help them identify, analyze, and evaluate the risks associated with environmental problems caused by nature and human beings, and to examine alternative solutions for resolving or preventing such problems. College course credit or placement may be obtained through the Advanced Placement Environmental Science Exam and this exam is required for all students taking this course. Class is scheduled

for six periods per week with the sixth period providing for laboratory and/or fieldwork. Topics include Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resources and Consumption, Pollution, and Global Change. Successful completion of AP Environmental Science cannot be used to meet the Living Environment course requirement for high school graduation. The course will contain a strong emphasis on laboratory and field work to enable students to learn about the environment through first hand observation. The full-year course is designed to be the equivalent of a one-semester, introductory college course in Environmental Science. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## College Physics

Code: 207106 | Grade: 11-12 | Credit: 1 | Pre-Req: Earth Science or Regents Biology and Honors or Regents Chemistry. This course is offered in collaboration with Siena College. Students complete the PHYS 110 and PHYS 120 classes that are offered at Siena but they take place at the Bethlehem High School with a Siena-approved professor. Students are introduced to classical mechanics where the fundamental laws of Newtonian mechanics are applied to a variety of simple systems.

Thermodynamics, electricity and magnetism, dc and ac circuits, electromagnetic waves, and light are covered in the course. Students are scheduled for 6 periods a week with the sixth period providing for laboratory work. Students must complete 1200 minutes of successful laboratory work during the course to sit for the regents exam. At the midterm point, students will take the PHYS 110 final. At the end of the course, students will sit for the NYS Regents Exam in physics and the PHYS 120 final. There is a fee for the credit through Siena if students choose to apply for the credit.

## Astronomy

Code: 207131 | Grade: 11-12 | Credit: 1/2 | Pre-Req: This course is designed for students that have taken Earth Science or have an interest in Space Sciences. Students that are successful in the course and pass the final will be eligible for college credit through SUNY Oneonta. The college credit is optional and available for approximately \$150. If the course is being taken for college credit, no more than 5 classes can be missed for the semester. An introductory survey of the universe and Earth's place in it. Students will survey the solar system, stars, galaxies, and the universe. Students will learn about the various instruments used to study the universe and problems faced by astronomers.

## The Atmosphere (Climate and Forecasting)

Code: 207129 | Grade: 10-12 | Credit: 1/2 | Pre-Req: This course is designed for students who have taken Earth Science or have an interest in learning more about Earth's atmosphere, its climate, and its weather. Students that are successful in the course and pass the final exam will be eligible for college credit through SUNY Oneonta. The college credit is optional and available for approximately \$150. If the course is being taken for college credit, no more than 5 classes can be missed for the semester. The course will provide students with a broad overview of the behavior of the Earth's atmosphere, its impact on human activity, and how such activity may be contributing to changes in weather and climate. At the conclusion of this class students should have a thorough understanding of what drives our daily weather and they will begin to understand and appreciate the scientific basis for weather and climate prediction.

## Biology

Code: 207107 | Grade: 9-12 | Credit: 1  
Regents Biology emphasizes a three-dimensional approach to essential life science topics including Structure and Function, Matter and Energy in Organisms and Ecosystems,

Inheritance and Variation of Traits, Natural Selection and Evolution, and Interdependent Relationships in Ecosystems. These topics help students explore key biological concepts related to organisms, ecosystems, genetics, and evolutionary processes. Class is scheduled for six periods per week with the sixth period providing a double period for laboratory experiences. Preparation for the State Regents Examination in Biology is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Chemistry

Code: 207109 | Grade: 11-12 | Credit: 1 | Pre-Req: Earth Science (Regents) or Honors Earth Science (Regents), and Biology (Regents) or Honors Biology (Regents). Students must have successfully completed algebra. It is strongly recommended that students be in Algebra 2 and have a 75+ course average in Algebra, Geometry, Earth Science and Biology. Students study key topics such as the properties of matter, atomic structure, the periodic table, chemical reactions, stoichiometry, thermodynamics, kinetics, equilibrium, and nuclear chemistry. The course emphasizes hands-on learning through laboratory

experiments, allowing students to apply theoretical knowledge by conducting investigations and analyzing data. Students are encouraged to engage in collaborative problem-solving activities and discussions to understand how chemistry impacts everyday life. The course also integrates technology, using simulations and interactive tools to help students visualize chemical processes. This course applies science and engineering practices and cross-cutting concepts to the understanding of disciplinary core ideas. This foundational chemistry course is designed to build essential scientific skills that can be applied in various fields. Preparation for the State Regents Examination in Chemistry is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Contemporary Issues in Science

Code: 207110 | Grade: 10-12 | Credit: 1/2  
The course will focus on students' science literacy within issues that have relevant impact due to their timely coverage. Issues such as 'Global Warming,' 'Stem Cell Research,' 'Genetic Engineering,' 'Nanotechnology,' and 'Performance Enhancing Drugs,'

are examples of areas that could be covered. Engaging content will be the scaffold used to provide students with an experience that investigates the validity of investigations used to verify claims within each subject matter. Students will be exposed to technical writing conventions to ascertain the validity of claims made about popular/contemporary issues in science and they will also inquire as to the uses and misuses of data. In short, the overarching goal is to have students become effective citizens by scrutinizing information presented to them through a scientific methodology that informs decision-making.

## Earth and Space Science

Code: 207111 | Grade: 9-12 | Credit: 1

Regents Earth and Space Science emphasizes a three-dimensional learning approach, covering key topics in Earth and space science. These topics include Earth's Place in the Universe, Earth's Systems, Earth and Human Activity, Weather and Climate, and The Universe and Its Stars. This curriculum is designed to engage students in Phenomena-Based Learning, encouraging them to develop a deep and practical understanding of Earth and space science. Class is scheduled for six periods per week with the sixth period

providing a double period for laboratory experiences. Preparation for the State Regents Examination in EarthScience is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Life Science: Biology 9

Code 207115 | Grade: 9 | Credit: 1

Life Science: Biology 9 is the first year of a two-year academic program on Biology, culminating in the Regents Biology state assessment, which students will take at the end of 10th grade. Successful completion of this state assessment is required for high school graduation. The Biology course will engage students in scientific inquiry, scientific communication and interdisciplinary problem solving. They will also learn the fundamental concepts and principles of modern biology, including material on cell biology, biochemistry, human biology, homeostasis and ecology.

## EXCEL Science 10

Code: 207114 | Credit: 1  
See Interdisciplinary Studies, Page 39.

## Forensic Science

Code: 207116 | Grade: 10-12 | Credit: 1/2

Introduction to Forensic Science including Observation Skills, Crime Scene Investigation and Evidence Collection, The Study of Hair, Fingerprints, DNA Fingerprinting, Blood and Blood Spatter, Death: Meaning, Manner, Mechanism, Cause, and Time, Casts and Impressions, and Ballistics. Students will maintain journals, write reflection papers, position papers, and also take traditional summative evaluations of content to demonstrate understanding. Each student will complete an individual case study and present their findings to the class.

## Honors Biology

Code: 207112 | Grade: 9-12 | Credit: 1

Honors Biology provides a comprehensive, in-depth, and rigorous exploration of the principles of life sciences, designed for motivated students who seek to deepen their understanding of biological concepts. The curriculum covers a wide range of topics, including cell structure and function, genetics, evolution, ecology, and the interdependence of organisms within ecosystems. Students engage in advanced laboratory experiments and hands-on investigations that enhance their skills in scientific inquiry, data analysis, and

critical thinking. Through collaborative learning and discussions, students examine contemporary issues. The use of lab technology further enriches the learning experience, preparing students for future studies in biology and related fields. Preparation for the State Regents Examination in Biology is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Honors Chemistry

Code: 207101 | Grade: 10-12 | Credit: 1 | Pre-Req: Earth Science (Regents) and Biology (Regents), or Honors Earth Science, Honors Biology, or students who have successfully completed Regents Chemistry. Students must have successfully completed Algebra. It is strongly recommended that students be in Pre-Calculus and have earned a 90+ course average in Algebra, Geometry, and Algebra 2, as well as in Honors Earth Science and/or Honors Biology, or Regents Chemistry.

Students study key topics such as the properties of matter, atomic structure, the periodic table, chemical reactions, stoichiometry, thermodynamics, kinetics, equilibrium, and nuclear chemistry. The course emphasizes hands-on laboratory experiments, where

students design and conduct investigations to analyze chemical reactions and understand matter's behavior at the molecular level. Honors students are encouraged to engage in problem-solving, and data analysis, applying mathematical concepts, and modeling to explain chemical phenomena. The integration of technology, such as simulations and digital tools for data analysis, supports students in visualizing complex chemical processes. This course applies science and engineering practices and cross-cutting concepts to the understanding of disciplinary core ideas. This rigorous curriculum prepares students for further studies in chemistry and related STEM fields. Preparation for the State Regents Examination in Chemistry is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Honors Earth and Space Science

Code: 207113 | Grade: 9-12 | Credit: 1  
Honors Earth and Space Science provides an in-depth exploration of the fundamental processes shaping our planet and the universe, with an emphasis on advanced scientific inquiry and critical thinking. Students delve into

topics such as the formation and evolution of the Earth, plate tectonics, climate systems, and the dynamics of space, including the life cycle of stars and the structure of the universe. The course challenges students to analyze complex data sets, engage in hands-on investigations, and develop models to explain natural phenomena. Honors students are expected to collaborate on problem-solving activities and engage in deeper discussions on contemporary issues. Preparation for the State Regents Examination in Earth Science is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Human Anatomy and Physiology

Code: 207117 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Regents Biology.

This course gives students the opportunity to learn more about the structures and functions of the human body, providing a foundation for students interested in continuing with additional studies in this field. Topics in the course include detailed studies of the anatomy and physiology of human cells, tissues and systems. Diseases/disorders (their causes/treatments) are



included in the study of each system. Laboratory experiences are provided, and written lab reports are required.

## Natural Disasters of the Restless Earth

Code: 207122 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Earth Science (Regents).

Natural Disasters of the Restless Earth is designed for students that have an interest in some of the most powerful and destructive natural forces on Earth. This course will focus on the causes of natural hazards, how scientists study them and how we as a society can best prepare for them. Students will analyze real time data and learn about the mechanics of earthquakes, volcanoes, flooding, landslides, tsunamis, extreme weather, and wildfires. An emphasis will be placed on the social impacts of such disasters. This will be accomplished through student review of current events and investigations of significant events. Students will be provided the opportunity to research related topics of personal interest.

## Physics

Code: 207123 | Grade: 11-12 | Credit: 1 | Pre-Req: Regents Earth Science or Regents Biology and Regents Chemistry. Core topics include motion, forces, energy, momentum, waves, electricity, magnetism, and modern physics concepts like atomic structure. Through

hands-on laboratory experiments, students explore these concepts by conducting investigations, collecting data, and analyzing results to develop a deeper understanding of the laws of physics. Collaborative problem-solving and real-world applications are emphasized, helping students connect physics to everyday life, such as how energy is used in technology or how forces impact structures. Technology integration, including simulations and modeling tools, allows students to visualize abstract concepts like wave behavior and electric fields. This course provides an introductory foundation in physics, equipping students with critical thinking, analytical, and problem-solving skills for advanced science studies and practical applications in engineering, technology, and other STEM fields. Preparation for the State Regents Examination in Physics is stressed and students are required to complete at least 1200 minutes of laboratory work and to submit acceptable written reports on laboratory problems in order to be eligible to take the State Regents Exam.

## Practical Chemistry

Code: 207108 | Grade: 11-12 | Credit: 1 | Pre-Req: Earth Science (Regents) and Biology (Regents) or Excel Science 9, and Excel Science 10. Successful completion of Algebra is strongly recommended.

Chemistry is a first year chemistry course designed for third and fourth year science students who are interested in learning chemical concepts and principles, laboratory methods and skills, and scientific attitudes in order to explore and access applications of chemistry to real and meaningful problems and issues of everyday life. Topics of study may include: Matter and Energy, the Periodic Table, Mixtures and Solutions, Acids and Bases, Home Safety, Air Quality, Water Quality, Nuclear Chemistry, Sources of Energy. A "school level" first semester exam and a "school level" second semester exam will be administered, in class, at the end of each semester and each will count as 1/6 of the final course grade. Class is scheduled for five periods per week.

## Practical Earth Science

Code: 207125 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of EXCEL Science 10.

This course is designed for students who have completed the two year EXCEL science program on the Living Environment and are in need of their third science credit to graduate. Any student who has taken and passed Regents Earth Science may NOT take this course for credit. This course provides students in the EXCEL science program with the

opportunity to achieve the State's physical science commencement standards and the science graduation requirement. This course will focus on the Earth Sciences including Astronomy, Meteorology, and Geology.

## Practical Physics

Code: 207124 | Grade: 11-12 | Credit: 1 | Pre-Req: Algebra and Geometry.

Students should have successfully passed the Algebra Regents examination. The course is designed for students who hope to go into professions such as nursing, construction, automobile mechanics, agriculture, electronics, plumbing and heating and air conditioning. The focus of the course will be on increasing students' understanding of the types of general physical principles that apply directly to these professions. These principles will include concepts related to motion, mechanics, work & energy, momentum, heat, fluids, waves, electricity, magnetism and electromagnetism. Many practical applications will be provided.

## Science Research Seminar

Code: 207126-207128 | Grade: 10-12 | Credit: 1 per year  
This course will afford students the opportunity to participate in scientific research. Students will be taught skills and

methods required to do original research, which may culminate in a senior research project being entered into regional, state and/or national science competitions. Research topics may come from mathematics, physical sciences, life sciences, social sciences or psychology. Students will develop skills in using Internet's capabilities, conduct online bibliographic searches of international databases, conduct statistical analysis using appropriate software and incorporate visual presentation techniques. Students, after choosing their topic of research, will seek a scientist mentor to guide them. Students are required to maintain an activity log and to submit periodic progress reports. This course will primarily be a two or three year sequence course, with students enrolling in their sophomore or junior year and continuing through their senior year. **It is expected that students will select a research topic by the end of their sophomore year and begin research during the summer and continuing into the junior year.**

## Wildlife Biology

Code: 207130 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Regents Biology.

Wildlife Biology focuses upon topics in the fields of wildlife management and zoology. Wildlife management subjects include: basic ecology, wildlife

territory and travels, wildlife diversity, the future of wildlife and the regulation of wildlife populations. In addition, more specific analysis and information will be provided regarding some key classes of vertebrates. Topics will be explored through readings, class discussions, laboratory and field investigations, audiovisual presentations and group activities. Students will be provided the opportunity to prepare short reports of wildlife related articles of their own choosing and to develop projects.

# SOCIAL STUDIES

If a student believes that he or she may be qualified for a specific course without having completed its pre-requisites, the student is welcome to discuss the matter with the district's social studies supervisor.

## Advanced Placement American History

Code: 208103 | Grade: 11-12 |  
Credit: 1 | Pre-Req: Global  
Studies 10.

This Advanced Placement course is an intensive, in-depth study of American history from 1607 to the present. It places heavy emphasis on historiography that is on the methods and interpretations that various historians have employed in their unlocking of the American past. The course forces a student to think in historical rather than contemporary terms. It requires both extensive reading and an ability to reason in abstract terms. The instruction is considered to be the equivalent of undergraduate college level. It is recommended that the course be limited in enrollment to those who have been referred by a social studies teacher and who have an average of 88 percent or higher in social studies. Students will take the U.S. History and Government Regents (a requirement for graduation) in June. A summer assignment is a requirement of this course. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College

Board must be paid by November 1 on Linq Connect or the student will be placed in another social studies course.

## Advanced Placement Art History

Code: 200108 | Grade: 11-12 |  
Credit: 1 | Pre-Req: Global 9/10

The AP offering in art history is designed to provide the same benefits to the high school students as those provided by an introductory college course in art history with the understanding and enjoyment of architecture, sculpture, painting and other art forms within a historical and cultural context. The students will examine major forms of artistic expression from the past to present in a variety of cultures. They will learn to look at works of art critically, with intelligence and sensitivity and to analyze what they see. Advanced Placement credit will be given to those students who have performed successfully on the AP Art History examination. This is an interdisciplinary offering and students may elect either art or social studies credit. This course will not take the place of any of the required social studies courses. The Advanced Placement Examination is required of all students taking this course. The

fee charged by the College Board must be paid by November 1 on Linq Connect. This course includes an online component, visiting artists and museum experiences. AP Art History requires a summer assignment. *This course may be offered every other year.*

## Advanced Placement Economics, Participation in Government (Micro/Macro)

Code: 208104 | Grade: 12 |  
Credit: 1 | Pre-Req: AP  
American History

The state of New York requires that students meet standards in Economics, History, Geography, and Civics. In this course, our focus will be on Economics and Civics. The fall AP Macroeconomics course is followed by a spring AP Microeconomics course and Participation in Government will be incorporated into the curriculum throughout the whole year. The course is very similar to the rigorous AP Microeconomics course already offered, but the content and pace of this course will be more intensive in learning and preparation for two Advanced Placement exams. Content specifications will generally

conform to areas suggested by the Educational Testing Service. While an open enrollment policy will be followed, it is critical for students and parents to understand the high expectations that exist for this course and to consult with school counselors and present classroom teachers regarding course selection. **Summer assignment, mid-term exam, AP Macroeconomics and AP Microeconomics examinations, and final project are required of all students taking this course.** After successful completion of the course, a student will earn Economics and Participation in Government credit toward graduation. Additionally, all students will complete 20 hours of community service, which is a graduation requirement.

## Advanced Placement European History

Code: 208105 | Grade: 11-12 | Credit: 1 | Pre-Req: Global Studies 9-10

The Advanced Placement course in European history is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in European history. Students should learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. Students should develop the skills necessary to arrive at conclusions on the basis of an

informed judgment and to present ideas clearly and persuasively in essay form. Content specifications will generally conform to areas suggested by the Educational Testing Service. While an open enrollment policy will be followed, students and parents must understand the high expectations that exist for this course and consult with school counselors and present classroom teachers regarding course selection. A summer assignment is a requirement of this course. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 1 on LINQ Connect or the student will be removed from the course. This course may be offered every other year.

## Advanced Placement Human Geography

Code: 208131 | Grade: 10-12 | Credit: 1

AP Human Geography is an introductory college level course designed to cover a broad range of topics in human geography. Its purpose is to introduce the systematic study of patterns and processes that have shaped human understanding, activity, and the use and alteration of the Earth's surface. Students will critically examine humans' organization of space and the environmental and social consequences of their decisions. They will also

examine the patterns across the cultural landscape, identifying trends and then predicting future needs and activities that may occur across the geographic landscape. The Advanced Placement Examination is required of all students taking this course. *This course may be offered every other year.*

## Advanced Placement Microeconomics, Participation In Government

Code: 208106 | Grade: 12 | Credit: 1 | Pre-Req: AP American History

The state of New York requires that students meet standards in Economics, History, Geography and civics. In this course, our focus will be on Economics and Civics. The AP Microeconomics course will be the main focus with Participation in Government and review for the AP Microeconomics exam incorporated into the curriculum throughout the whole year. The course is very similar to the rigorous Economic principle courses at the college level. Content specifications will generally conform to areas suggested by the Educational Testing Service. While an open enrollment policy will be followed, it is critical for students and parents to understand the high expectations that exist for this course and to consult with school counselors and present classroom teachers regarding

course selection. **Summer assignment, mid-term exam, AP Microeconomics examination and final project are required of all students taking this course.** The fee charged by the College Board must be paid by November 1 on Linq Connect or the student will be removed from the course. After successful completion of the course, a student will earn Economics and Participation in Government credit toward graduation. Additionally, all students will complete 20 hours of community service, which is a graduation requirement.

## Advanced Placement Psychology

Code: 208107 | Grade: 11-12 | Credit: 1

This year long course is intended to introduce students to the systematic and scientific study of behavior and mental processes and students will increase their understanding of psychology, its methods, theory and research. AP Psychology is a survey course, so students will focus on bits of information from many different areas in Psychology. Primarily, the course will explore the psychological facts, principles and phenomena associated with each of the major sub fields of psychology (consciousness, learning, personality, cognition, etc.). The objective of this course will be that each student take and pass the Advance Placement Exam

for Psychology and all aspects of the course will reflect this fact. AP psychology will be taught at the college level and student study habits and participation should reflect this fact. All vocabulary, information and activities will be intended to prepare you for the AP exam. Students will be asked to complete many writing assignments and projects. Students should be prepared for work outside of class. **Additionally, a summer assignment is a requirement of this course.** The AP fee charged by the College Board must be paid by November 1 on Linq Connect.

## Advanced Placement World History: Modern

Code: 208108 | Grade: 10-12 | Credit: 1 | Pre-Req: Global History 9.

The Advanced Placement course in world history is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the issues and materials in world history. Students should learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. Students should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present ideas clearly and persuasively in essay form. Content specifications will

generally conform to areas suggested by the Educational Testing Service as well as those detailed in the State Education Department's Scope and Sequence for Global History and Geography. While an open enrollment policy will be followed, it is critical for students and parents to understand the high expectations that exist for the course and to consult with school counselors and present classroom teachers regarding course selection. Students will also take the Global History and Geography Regents (a requirement for graduation) in June. **A summer assignment is a requirement of this course.** The Advanced Placement Examination is required of all students taking this course. The AP fee charged by the College Board must be paid by November 1 on Linq Connect or the student will be placed in another social studies course.

## American Wars

Code: 208102 | Grade: 11-12 | Credit: 1/2

*This course may run every other year.* This course will provide an in-depth, objective study of the American Civil War and World War II and their impact on the United States and the world. This course will make use of numerous student-centered discovery activities designed to actively involve the students in the learning process.

## Distant Lands

Code: 208141-208142 | Grade: 10-11 | Credit: 1/2

Do you dream about travelling the world? Would you love to explore other places, peoples and cultures? This course will allow you to investigate the fascinating lands beyond our borders. This one-semester elective is a mix of geography, history, culture and current events. Students will begin with an introduction to the physical and political geography of the world's continents. Next the class will focus on an intensive study of a few countries or regions. Each year, different countries or regions may be emphasized. Examples of focus countries include Japan, South Africa and Central America. Students will study maps, fiction and nonfiction readings, music, and film, in order to gain an in-depth appreciation for the geography, culture and current society of the chosen countries.

## Economics

Code: 208109 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.

Designed to provide a framework for understanding the many complex economic issues of our time, this course will explore the theories and principles that underlie all economic structures from individual decision-making to the complexities of international economics. This course will provide a basic

foundation in economics for all those planning on further education beyond high school.

## EXCEL Global History 9/10

Code: 208111-208110 | Grade: 9-10 | Credit: 1 | Pre-Req: Counselor-teacher recommendation. Students in either course must also enroll in corresponding EXCEL English. See Interdisciplinary Studies, Page 39.

## Global History 9

Code: 208113 | Grade: 9 | Credit: 1

Global History 9 is the first year of a two-year program, which culminates in a Regents exam at the end of the second year. The exam is a graduation requirement for all students. Starting with a review of the skills of historical analysis the course examines the history of the world from 4000 BC to the present day. The program is structured around the New York State Learning Standards for Social Studies and is designed to integrate the central themes identified by the National Council for the Social Studies.

## Global History 10

Code: 208112 | Grade: 10 | Credit: 1 | Pre-Req: Social Studies 9.

This course is the final segment of a two-year Global History curriculum. The course will culminate in a Regents exam. The exam is a graduation

requirement for all students. Beyond the continuous development of social studies skills and historical analysis, the course will examine the history of the world from the late 18th century to the present day. The program is structured around the New York State Learning Standards for Social Studies and is designed to integrate the central themes identified by the National Council for the Social Studies.

## Global History 9 Honors

Code: 208114 | Grade: 9 | Credit: 1 | Pre-Req: Social Studies 8.

The Honors classes will use higher-level reading material as well as higher-level thinking activities during the year. Original source material will be used wherever possible. While an open enrollment policy will be followed, it is critical for students and parents to recognize that instructional and assessment practices will be consistent with the Advanced Placement program. As such, consultation with the school counselor and current social studies teacher is encouraged. Additionally, **a summer assignment is a requirement of this course.**

## A History of New York City

Code: 208116 | Grade: 10-12 | Credit: 1/2

*This course may run every other year.* New York City is both emblematic of and uniquely different from the rest of America. This course will investigate the nearly 400-year history of the city and the critical role it has played in so many events. Using primary sources, documentaries, films and excerpts from a variety of texts and articles, students will consider the city's astonishing dominance and allure over many eras of American history.

## The Study of the Holocaust

Code: 208139 | Grade: 10-12 | Credit: 1/2

*This course may run every other year.* The purpose of this course is to explore the history and memory of the Holocaust. This is a comprehensive study of events leading up to the Holocaust, the Holocaust itself and its impact on the world. Students will investigate topics such as Anti-Semitism, Nazi ideology, Resistance, and the "Final Solution," among other topics. We will discuss complex issues such as guilt, war crimes, denial and genocide in the late 20th and early 21st centuries. Along with secondary sources, students will examine primary sources such as photographs, journals, diaries, film, letters, government

documents, poems and eye witness testimony.

## Law and Life

Code: 208121 | Grade: 11-12 | Credit: 1/2

*This course may run every other year.* In a free and competitive society, the law provides a vehicle for accomplishing social change in a way that minimizes conflict. This course will use materials from the Law-Related Education Program and will use local attorneys as resources. Students may also participate in mock trials and field trips designed to have students become aware of career opportunities in law and law related fields.

## Participation in Government

Code: 208122 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.

This course is designed to have students analyze public policy issues, make decisions and develop implementation policies necessary to solve problems. The public policy issues and problems to be studied will be determined by current events from local, state, national and global perspectives. Research skills, logic and writing skills will help students become effective participating citizens in our democracy. All students will be required to do a participation project that will be developed as an integral part of this course. Additionally, all

students will complete 20 hours of community service.

## Philosophy: East & West

Code: 208144 | Grade: 10-12 | Credit: 1/2

*This course may run every other year.* This course delves into the Western philosophical tradition by exploring the works of influential thinkers such as Plato, Aristotle, and Descartes. Eastern Philosophy is an introduction to the major philosophical traditions of China and India, concentrating on the work of such major thinkers as Lao Tzu, Confucius, and Buddhism. Key philosophical questions that have shaped the discipline are examined, including inquiries about the nature of the mind, the existence of God, the foundations of knowledge, and the concept of the good life. Additionally, the course will analyze shifts in intellectual perspectives over different eras and how scientific, religious, and political factors have influenced the evolution of philosophical concepts.

## Practical Economics

Code: 208123 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.

This course is designed to provide students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens of our society and world. This

course will emphasize the practical, rather than the theoretical approach to economics. Special attention will be given to developing reading and writing skills in a “how-to” and “hands-on” approach to basic survival economics, which will help the student cope with everyday financial problems encountered after high school. We use materials prepared by Junior Achievement for this program. Guest teachers from the world of business give a practical emphasis to this course.

## Practical Participation in Government

Code: 208124 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.

This course is designed to provide students with the skills necessary to analyze public policies issues and to effectively participate as citizens. The course will emphasize the practical, rather than the theoretical approach to policy analysis. The specific issues examined will be determined by current events from local, state, national and global perspectives. All students will be required to do a participation project as an integral part of the course. Additionally, all students will complete a 20-hour service requirement.

## Psychology

Code: 208125 | Grade: 10-12 | Credit: 1/2

*This course may run every other year.* This course is an introductory course in psychology designed to help provide a foundation in psychology for students who are college-bound and those who are not. It attempts to survey the major schools of psychology, human behavior and development from birth to death, personality, learning and intelligence and the causes and treatment of mental illness. The course is designed to enable students to better understand themselves, their peers and family groups.

## Public Policy – Syracuse University Project Advance

Code: 208126 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.

This course will fulfill the Participation in Government course requirement for graduation. This course is designed to provide students with basic research, communication, and decision making skills used in public policy analysis. While studying particular public policy issues, students will practice collecting information and will examine the use of graphs, tables, statistics, and informal interviewing procedures. In addition, they will identify a social problem and come up with a proposed public policy.

This course is offered through Syracuse University Project Advance (SUPA). To earn college credit students will have to enroll with Syracuse at the beginning of the course. The current fee for registration is \$345. Students who successfully complete the course will receive 3 semester credits from Syracuse University. Additionally, all students will complete 20 hours of community service.

## Race, Gender and Identity

Code: 208127 | Grade: 10-12 | Credit: 1/2

*This course may run every other year.* This course will take a sociological, historical and psychological approach to issues of race, gender and identity in the United States and how these concepts have affected and molded the relationships and interactions of groups within our society. It will look analytically at the development and perpetuation of racism, sexism and genderism within the United States, and examine the difficulties and exclusion that different intersections of society have experienced, including people of color, women and LGBTQIA+ populations. This course will make use of a host of primary and secondary sources, as well as discussion, to give a more comprehensive view of the experiences of minorities in the United States.



## Sociology

Code: 208128 | Grade: 10-12 |  
Credit: 1/2

*This course may run every other year.* This is a survey course that provides the foundations of sociology for students who are college-bound and those who are not. The major topics include the institutions of religion, government, family and education and their impacts on society. The course is problem-centered and deals with the problems of youth rebellion, marriage, minorities,

poverty, crime, urban and rural problems and others that may be current. Emphasis is also placed on methods used in sociological research.

## US History & Government, United States History & Government 11-3

Code: 208129-208130 | Grade:  
11 | Credit: 1 | Pre-Req: Global  
Studies 10.

One of the major themes of the 11th grade United States History and Government course

is that of recognizing and studying basic constitutional issues and the application of constitutional principles to both historical and contemporary life. A survey of American social, economic and political history provides the framework for the discussion of these enduring issues. The culminating examination in June is the New York State Regents. In order to graduate from high school students must pass this Regents examination.

# WORLD LANGUAGES

World Language Courses are offered at different levels, some with optional UHS enrollment and AP assessments. Students may enroll in more than one language at different levels. Native and heritage language speakers are encouraged to find courses appropriate to their proficiency level. **Please contact the department supervisor for help in selecting an appropriate course.**

## French 1

Code: 203111 | Grade: 9-12 |

Credit: 1

Designed for students who would like to begin study of French, this course is an introduction to the French language and culture. The objectives of the course are to develop basic communication skills in French and to lay the foundation for continued study of the language. A broad variety of vocabulary and basic structures of the language prepare the student to use French for the functional purposes of communication. Elements of the geography, history and culture of French-speaking peoples are included to support students' cultural knowledge and understanding.

## French 2

Code: 203112 | Grade: 9-12 |

Credit: 1 | Pre-Req: French 1.

This course builds upon the foundation laid in French 2 and begins to prepare students to take the World Languages Checkpoint Examination in French at the conclusion of French 3. Continued study of vocabulary and the structural components of the language further develop students' skills

in using French for the functional purposes of communication. Authentic materials from French-speaking cultures are integrated into instruction in order to further students' knowledge and understanding of French language and cultures. Students who have passed the World Languages Checkpoint B Exam in Spanish may also select this course and will find that their ability to communicate in French develops quickly as their acquisition of French occurs at a very rapid pace.

## French 3

Code: 203113 | Grade: 10-12 |

Credit: 1 | Pre-Req: French 2.

French 3 continues to provide students opportunities to develop their communication skills in French while preparing students for the World Languages Checkpoint B Examination in French, which is the final examination for the course. Instruction will occur primarily in French and students will read articles from current French magazines, newspapers and online publications in order to discuss and critique them. At the conclusion of the course, students will be prepared for intermediate study in French.

## Intermediate French Honors

Code: 203147 | Grade: 11-12 |

Credit: 1 | Pre-Req: French 3.

After successfully passing the World Languages Checkpoint B Examination in French, students have the opportunity to further develop their skills in French at the intermediate level. An integrated approach to language acquisition will be used as students read works of literature (short stories, plays, poetry), use selections from popular media (film, newspapers, magazines, online publications), prepare oral presentations, and continue to explore French cultures more deeply. This course may be taken for college credit through a partnership with the University at Albany. Students who pay the required fee and who successfully complete the course requirements will earn four college credits.

## Advanced French Honors

Code: 203145 | Grade: 10-12 | Credit: 1 | Pre-Req: Intermediate French.

Advanced study in French will help students further refine their abilities to communicate in French. Instruction will occur almost exclusively in French. Students will have opportunities to learn and discuss subjects that reflect the cultural and current events of French-speaking countries. This course may be taken for college credit through a partnership with the University at Albany. Students who pay the required fee and who successfully complete the course requirements will earn four college credits.

## Advanced Placement French

Code: 203104 | Grade: 12 | Credit: 1 | Pre-Req: Intermediate French.

The AP French course will prepare students to take the College Entrance Exam in French language. The course in Advanced Placement in French Language is intended to be representative of courses commonly offered in colleges and universities and is the equivalent of a third-year college course. Students who enroll in AP French Language should already have a good command of French grammar and vocabulary, and have a passion for the structural components of the language.

The Advanced Placement Exam will be required of all students and there will be a summer study unit to help students prepare for the course. The fee charged by the College Board must be paid by November 1 on Linq Connect. Portions of this course will be delivered via an on-line platform.

## Spanish 1

Code: 203129 | Grade: 9-12 | Credit: 1

This course is for students with limited or no previous experience of Spanish as an instructed language. This course is designed to help students develop basic forms of interpersonal communication, foundational vocabulary, and basic cultural understanding. Other language structures are explored to support the use of Spanish for communication.

## Spanish 2

Code: 203128 | Grade: 9-12 | Credit: 1 | Pre-Req: Spanish 1-MS.

This course builds upon the foundation laid in prior years and begins to prepare students to take the World Languages Checkpoint B Examination in Spanish at the conclusion of Spanish 3. Continued study of vocabulary and structural components of the language further develop students' skills in using Spanish for the functional purposes of communication. Authentic materials from Spanish-speaking cultures are integrated into instruction in order to further

students' knowledge and understanding of Latino language and cultures. Students who have passed the World Languages Checkpoint B Examination in French may also select this course and will find that their ability to communicate in Spanish develops quickly as their acquisition of Spanish occurs at a very rapid pace.

## Spanish 3

Code: 203130 | Grade: 10-12 | Credit: 1 | Pre-Req: Spanish 2. Spanish 3 continues to provide students opportunities to develop their communication skills in Spanish while preparing students for the World Languages Checkpoint B Examination in Spanish, which is the final examination for the course. Instruction will occur primarily in Spanish and students will read articles from current Spanish magazines, newspapers and online publications in order to discuss and critique them. At the conclusion of the course, students will be prepared for intermediate study in Spanish.

## Spanish Culture and Civilization

Code: 203152 | Grade: 11-12 | Credit: 1 | Pre-Req: Spanish 3 Students continue to expand their ability to communicate in Spanish in a variety of ways. Students learn new vocabulary in thematic units, and grammar structures from prior levels of Spanish are reviewed and

practiced. Expanding students' cultural knowledge and cultural competency are integral parts of this course, discovered via authentic media, conversation, and project-based learning.

## Intermediate Spanish Honors

Code: 203148 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of Spanish 3.

After successfully passing the World Languages Checkpoint B Examination in Spanish, students have the opportunity to further develop their skills in Spanish at the collegiate level. An integrated approach to language acquisition will be used as students read works of literature, use selections from popular media, prepare oral presentations, and continue to explore Latino cultures more deeply. Students are expected to have a solid mastery of Spanish grammatical structures and be willing to use Spanish as the main language of communication. This course may be taken for college credit through a partnership with the University at Albany. Students who pay the required fee and who successfully complete the course requirements will earn four college credits.

## Advanced Spanish Honors

Code: 203146 | Grade: 11-12 | Credit: 1 | Pre-Req: Intermediate Spanish.

Advanced study in Spanish will help students further refine their abilities to communicate in Spanish. Instruction will occur almost exclusively in Spanish and students are expected to use Spanish to communicate as well. Students will have opportunities to learn and discuss subjects that reflect the cultural and current events of Spanish-speaking peoples, and to review and refine their use of advanced grammatical structures. This course may be taken for college credit through a partnership with the University at Albany. Students who pay the required fee and who successfully complete the course requirements will earn four college credits.

## Advanced Placement Spanish

Code: 203105 | Grade: 12 | Credit: 1 | Pre-Req: Intermediate Spanish.

The AP Spanish course will prepare students to take the College Entrance Exam in Spanish Language. The course in Advanced Placement in Spanish Language is intended to be representative of courses commonly offered in colleges and universities and is the equivalent of a third-year college course. Students who enroll in AP Spanish Language should already have a good

command of Spanish grammar and vocabulary, and have a passion for the structural components of the language. The Advanced Placement Exam will be required of all students and there will be a summer study unit to help students prepare for the course. The fee charged by the College Board must be paid by November 1 on Linq Connect.

## ENL Program

Code: 203109 | Grade: 9-12 | Credit: 1

The English as a New Language program develops the skills of listening comprehension, speaking, reading and writing for those students whose native language is not English. Enrollment in this course is required for some students based upon their score on the New York State English as a Second Language Achievement Test (NYSESLAT). The students meet daily in a small group with their teacher and follow the Next Generation State Standards for ELA.

# Four-Year Course Worksheet

| PER | 9th Grade<br>Freshman Year                               | UNITS | 10th Grade<br>Sophomore Year     | UNITS | 11th Grade<br>Junior Year        | UNITS | 12th Grade<br>Senior Year                 | UNITS      |
|-----|--|-------|----------------------------------|-------|----------------------------------|-------|---|------------|
|     |  |       |                                  |       |                                  |       |   |            |
| 1   | ENGLISH 9  | 1     | ENGLISH 10                       | 1     | ENGLISH 11                       | 1     | ENGLISH 12<br>(electives)                 |            |
| 2   | GLOBAL STUDIES 9   | 1     | GLOBAL STUDIES 10                | 1     | US HISTORY & GOVT                | 1     | PARTICIPATION IN<br>GOVT and<br>ECONOMICS | 1/2<br>1/2 |
| 3   | MATH   | 1     | MATH                             | 1     | MATH                             | 1     |   |            |
| 4   | SCIENCE _____  | 1     | SCIENCE _____                    | 1     | SCIENCE _____                    | 1     |   |            |
| 5   | WORLD LANGUAGES  | 1     |                                  | 1     |                                  | 1     |   | 1          |
| 6   | ART, MUSIC, or<br>APPROPRIATE CAREER &<br>TECH COURSE(S) | 1     | HEALTH                           | 1/2   |                                  | 1     |   | 1          |
| 7   | PHYSICAL EDUCATION                                       | 1/2   | PHYSICAL EDUCATION               | 1/2   | PHYSICAL EDUCATION               | 1/2   | PHYSICAL EDUCATION                        | 1/2        |
| 8   | LUNCH  |       | LUNCH                            |       | LUNCH                            |       | LUNCH                                     |            |
| 9   | STUDY TIME/HELP FROM<br>TEACHERS                         |       | STUDY TIME/HELP<br>FROM TEACHERS |       | STUDY TIME/HELP<br>FROM TEACHERS |       | STUDY TIME/HELP<br>FROM TEACHERS          |            |
|     | <b>TOTAL UNITS</b>                                       |       | <b>TOTAL UNITS</b>               |       | <b>TOTAL UNITS</b>               |       | <b>TOTAL UNITS</b>                        |            |

**N.Y.S. Regents Diploma**  
20+2 PE units and must have passed Regents exams in English, math, science and social studies. You must also have met the LOTE Checkpoint A requirement

**N.Y.S. Advanced Regents Diploma**  
In addition to Regents Diploma requirements, students MUST pass additional Regents exams in Math and Science and LOTE Checkpoint B \*

\* 5-unit sequence in Technology, Art, Music, Family & Consumer Science, Business, or CTE may be substituted.

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