January 2019

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 work load 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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## Title IX

The Bethlehem Central School District hereby advises students, parents, employees and the general public that it offers employment and educational opportunities, without regard to sex, race, color, national origin or handicap. Grievance procedures are available to interested persons by contacting the person(s) listed below.

Please direct inquiries regarding this nondiscrimination policy to: Title IX/Section 504 Coordinator, Sex/Handicap Discrimination, Jody Monroe, Superintendent of Schools, 700 Delaware Avenue, Delmar, New York 12054; (518) 439-7098.
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, 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 Naviance program is used throughout the guidance and counseling curriculum to assist students and families with post high school plans. The Counseling Center also provides information on web-based career and college planning resources as well as traditional print and media tools.

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 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.
- **EXCEL** - Provides a team-based, interdepartmental organization of Regents-level curriculum in grades 9 and 10. The emphasis is on successful completion and reinforcement of basic skills and Regents requirements.
- **Lab School** - An alternative research based program, designed around community, conceptual learning, and academic achievement.
- **Honors** - Challenging courses for highly interested and capable students. Honors math courses include students who have accelerated their mathematics program.

Additional Opportunities

- **Graduation Acceleration and Credit-by-Examination**: Some students meet graduation requirements in fewer than the usual 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. Options for acceleration include Credit by Examination. The Principal may accept alternative tests, projects or a combination of tests and projects to demonstrate proficiency for a unit of study and credit.
- **Career Exploration Internship Program or General Education Work Experience Program**: For information concerning these programs, please contact Mr. Nick Petraccione, Supervisor for Social Studies and Business Education (Rm. C111), at 439-4921, ext. 22048.
- **Specialized Programs**: Specialized educational programs which involve other state-approved schools and/or programs may be developed by the student, parent and counselor for approval by the Principal.
- **Auditing Classes**: Students may choose to audit classes if seats are available with the permission of the teacher, supervisor, administration and their parents.
- **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.
- **Students Considering Overseas Internships**: The Bethlehem Central School District is supportive of overseas -internships and educational programs sponsored by the American Field Service (AFS) and other approved -programs. Students are reminded that planning for such activities must occur with the school early in a student’s educational program, typically two years prior to such a commitment. It is highly recommended that students complete all requirements and prerequisites as outlined in their course of study, and found within this handbook prior to leaving for the experience. Creating waivers or exceptions to the school’s educational program or timetable will not be allowed unless the student desires to delay his/her graduation from high school. Students should plan for this opportunity in their senior year when appropriate accommodations can be made to support the opportunity. For more information, contact your school counselor or the school administration.
**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 noted at the end of the course description in bold.

**Academic Intervention Services (AIS)**

The Academic Intervention Services (AIS) Plan has been developed by the Bethlehem Central School District consistent with Part 100 of the Commissioner’s Regulation, adopted by the Board of Regents in July 1999 (Appendix A). Section 100.1(g) defines AIS as follows:

Academic intervention services are intended to assist students who are at risk of not achieving the State learning standards in English language arts, mathematics, social studies and science, or at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on State assessments.

At Bethlehem Central High School, students may be placed within these services based on the following criteria:

- Students who have not passed state-mandated assessments in subjects listed above.
- Students who either have not met requirements of state-mandated assessments, but have passed the course, or who scored at level 1 or 2 on the grade 8: NYS assessments.
- Students who are failing courses (listed above) that are needed to meet graduation requirements.

Participation in AIS services may be scheduled for students who meet these criteria in one of the following manners: EXCEL classes and/or AIS classes to occur either within the student’s schedule or at the discretion of the teacher. The decision to place students in these services will be made with the approval of the curriculum supervisor of the subject areas, school counselor and principal. Participation in AIS is mandatory for students recommended for services based on these criteria.

**Note to students and parents:**
BCHS hopes to offer all the courses described in this Curriculum Guide during 2019-2020, but some courses may be cancelled due to insufficient enrollment, scheduling problems, or budget constraints.
Course & Testing Requirements for Graduation

### Advanced Regents Diploma

- **Course Requirements:**
  Students must earn the following course credits in order to graduate with an Advanced Regents Diploma:

  - English: 4
  - Social Studies: 4
  - Math: 3
  - Science: 3
  - World Languages: 3
  - Art/Music/Tech: 1
  - Health: 0.5
  - Phys. Ed: 2
  - Electives: 1.5
  - TOTAL CREDITS: 22

- **Testing Requirements:**
  Students must demonstrate competency in reading, writing, math, science, U.S. history and global studies by passing the New York State Regents examinations listed below:

  - English
  - Global History & Geography
  - U.S. History & Government
  - Algebra I, Geometry, Algebra II
  - Two Science Exams as well as a ...
  - NY-CAL Checkpoint B (or 5 credits in Technology, Art or Business)

### Regents Diploma

- **Course Requirements:**
  Students must earn the following course credits in order to graduate with a Regents Diploma:

  - English: 4
  - Social Studies: 4
  - Math: 3
  - Science: 3
  - World Languages: 1 (a)
  - Art/Music/Tech: 1
  - Health: 0.5
  - Phys. Ed: 2
  - Electives: 3.5
  - TOTAL CREDITS: 22

Regents or Advanced Regents Diploma with Math Mastery and/or Science Mastery designation: In addition to the same course and testing requirements, a score of 85 or better on each of three Regents’ exams taken in the subject area.

(a) Students are required to have completed one credit in a world language by the end of their freshman year.

- **Testing Requirements:**
  Students must demonstrate competency in reading, writing, math, science, U.S. history and global studies by passing the New York State Regents examinations listed below:

  - English/ELA
  - Global History & Geography
  - U.S. History & Government
  - Algebra I
  - One Science Exams as well as a ...
  - NY-CAL Checkpoint A

### Local Diploma Safety Net for Students with Disabilities

- **Course Requirements:**
  Students must earn the following course credits in order to graduate with a Local Diploma:

  - English: 4
  - Social Studies: 4
  - Math: 3
  - Science: 3
  - World Languages: 1 (a)
  - Art/Music/Tech: 1
  - Health: 0.5
  - Phys. Ed: 2
  - Electives: 3.5
  - TOTAL CREDITS: 22

(a) Students are required to have completed one credit in a world language by the end of their freshman year.

- **Testing Requirements:**
  State exams required for a local diploma are the same as for a Regents diploma.

  A. Students may score a 55 or above on one or more of the 5 required Regents' exams.

  B. The Compensatory Safety Net allows students to score between a 45 and a 54 on any Regents' exam except ELA and Math as long as they have a corresponding score of 65 or greater on another exam.
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.

A scheduling information program (Grade 8 Transition Night) for parents will be held at the High School on Tuesday, January 8, 2019.

Time Frame for Course Changes
The selection of courses entails a very careful and thorough decision-making process. Students will have the opportunity to make schedule changes at the time of course verification, which typically takes place in late June. Counselors will adjust for errors, under-enrolled classes and conflicts.

Once school starts in the fall, all students must follow their assigned schedules for the first three days of classes unless serious schedule problems exist (i.e. "double booked", wrong level, missing a required course, etc.). Beginning on the fourth day of school and continuing through the fifth day, students may initiate schedule change requests. Schedule changes may not be made after the fifth day of classes.

Students may not drop a sixth full-year course after the tenth day of the second semester or drop a sixth semester-long course after the tenth day of the second or fourth quarter.

Special circumstances will be reviewed by your counselor, teacher and subject supervisor. Students should talk to the counselor and teacher to initiate the course drop process.

Under-Enrolled Courses
The high school’s administration and department supervisors review all courses with an enrollment of fewer than 17 students. 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 are 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. However, the final decision regarding the offering of any course, including those courses that are culminating courses for a sequence, is dependent on a minimum of 17 student registrations and the approval of the Board of Education. Seniors and those needing specific courses will be given preference.
Special Education Student Services

Students who have a disability may be eligible for an individualized 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 handicap that substantially limits one or more major life activity may receive a 504 accommodation plan. With a 504 plan, students are provided classroom accommodations that could include such things as preferential seating, allowed to leave class to go to the Health office, use of the elevator, etc. Students might also require testing 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 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 (speech therapy, occupational therapy, physical therapy, adapted physical education, and/or counseling). 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. The service is for students with an IEP who need direct, supplemental instructional support for success in their general education classes. Students are grouped in resource rooms to meet their unique learning needs:

- **Social & Communication** — Students have a social and communication disorder (Autism Spectrum Disorder) that requires direct social skills training and support in navigating the social environment of school. Speech language therapy is provided for both social and pragmatic language skills.
- **Organization & Writing** — Students need significant assistance with organization of time, materials and writing. Assistive technology support is provided as needed.
- **Learning Support** — Students may have need for support in multiple areas.

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. Consult teacher support from a special education teacher is provided in the interdisciplinary courses of Math, Social Studies, Science, and English required for a high school diploma.

Linking Education and Development (LEAD)

This program is designed for students who are working toward a Skills and Achievement Commencement Credential. In LEAD, students participate in the same courses that all high school students must take for graduation. The LEAD program offers the same curriculum with a focus on key concepts and skills students will
need for maximum independence in work, home, and community after high school. The high school courses are rotated in a 4-year sequence to ensure that each student has access to the curriculum during his/her high school years. The Post Graduate portion of the program offers students the opportunity to develop their independent living and vocational skills in preparation for life beyond the typical high school setting.

College Transition Program (The College of Saint Rose)
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 College of Saint Rose campus. Students work on increasing independence by improving social, communication, employability and self-advocacy skills.

ART

If a student believes that he or she 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 art. It is 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, ceramics and digital media. 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.

Introduction to 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 Studio Art.

Advanced Studio Art
Code: 200106 | Grade: 10-12 | Credit: 1 | Pre-Req: Drawing and Painting.
Students in this course should expect to further develop their observational skills with more challenging subject matter such as the portrait, figure and
perspective. In addition, students will explore the potential of personal expression and development of a personal style in their work. Drawing and painting will remain the focus for portfolio development; however, experiences in three dimensional and non-traditional media may be explored. Students are expected to be self-motivated in order to reach and surpass personal challenges. It is expected that the work produced throughout the year demonstrate skill growth, idea development and process. This course will prepare the student for the advanced capstone level course and careers in the Arts. Optional: Six College Credits through UHS at SUNY Albany (Summer assignment required.)

Senior Portfolio Class
Code: 200121 | Grade: 11-12 | Credit: 1 | Pre-Req: Studio in Art and 2 art electives.
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. (Summer assignment required.)

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 electives.
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 “Breadth” section of the portfolio that demonstrates a variety of concepts and approaches. (Summer assignment required.)

Advanced Placement Art History
Code: 200108 | Grade: 11-12 | Credit: 1 | Pre-Req: Global 9/10 and one Art/Music course.
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. Requirements will include digital research and some student driven digital presentations. Multiple local and regional field trips will give students the opportunity to experience artwork in person. 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. AP Art History requires a summer assignment.

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 and creation in this fun and exciting course.

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.

Digital Media Design
Code: 200127 | Grade: 10-12 | 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, 3-D printing, virtual reality and websites. Digital Media Arts is intended for high school level students to gain an understanding of digital print and UX media. Students will learn the skills and concepts of digital photography, graphic design, web-design, and digital integration with visual imagery. This course will focus on the use of computer and digital camera technology for the creation of digital print and online media and will serve as a general introduction to the field of computer art and design.

The Ad Agency: Advanced Advertising 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.

Creating Graphic Novels
Code: 200129 | Grade: 10-12 | Credit: 1/2
Learn how easy it is to draw comics, create characters and tell dynamic stories. Focusing on the science of the brain, the nature of images, mindfulness and storytelling, students will increase focus and tap into their creativity. Students will increase metacognition and form a community among themselves through writing, drawing, storytelling and presenting. Students will walk away with several full composition notebooks including writing and drawing exercises, drawings of themselves as comics and short hand written and illustrated comic books.

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.

Film Making for Production
Code: 200126 | Grade: 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.

Advanced Film Making and Animation
Code: 200103 | Grades: 10-12 | Credit: 1/2 | Pre-Req.: Film Making.
The advanced filmmaking class will expand and refine the techniques learned in filmmaking including script writing, animation and green screen. Short film in a variety of genres will be explored. Research of historical and contemporary filmmaking will be a significant component to the curriculum as well as production. Advanced filmmaking will enable students to expand their knowledge base and technical skill sets. The class will focus on applying the fundamental film techniques to the art of telling a story with a digital camera. Emphasis will be placed on writing for film and editing techniques, aiming for creative and polished original works.

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 iMac computer technology are integrated throughout the course as well. All photography students are expected to have their own 35-mm SLR camera with a manual operational mode. Cameras are available on loan from the Art Supervisor on a first come first serve basis. Students and are responsible for purchasing their own film and photographic paper.

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 including aerial photography using a DJI Inspire One UAV. Guest speakers and field experiences allow students to explore career fields in photography. All photography students are responsible for purchasing their own film, photographic paper and supplies. Optional: Three College Credits through UHS at SUNY Albany. (Summer assignment required.)
Digital Photography
Code: 200111 | Grade: 10-12 | Credit: 1/2
This course will introduce students to the world of digital photography and the latest trends in iPhoneography. Using a digital camera, students will learn the basic processes and techniques of working with digital photography in our state of the art Mac Lab. The course covers camera operation, shooting styles, image adjustments and corrections using image editing in Adobe Photoshop, and apps on class set of iPads and their own devices. In keeping with the concepts of 21st century learning, the students will learn to create, innovate, problem solve, communicate and collaborate by using their own personal technology. Students will learn how to use digital photography as a creative tool for self-expression, social exploration and still documentation. Students will be able to create their own digital prints using various papers and large format printers.

Ceramics
Code: 200110 | Grade: 10-12 | 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 with be explored in a brand-new ceramics studio. 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.

Sculpture
Code: 200130S | Grade: 10-12 | Credit: 1/2
A course in three-dimensional design, constructed to offer both aesthetic and technical exploration of media. Students will be involved in a series of projects to familiarize them with the basic sculptural concepts and techniques, any of which could lead to a more complex and involving sculptural work. As the course develops, students will be encouraged to create major sculptural pieces using techniques such as construction welding and soldering, clay modeling and casting, carving and building an armature.
CAREER & TECHNICAL EDUCATION

If a student believes that he or she 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 & 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

Many courses include opportunities for career exploration and/or college credit.

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.

Business Organization & Management
Code 201103 | Grade: 10-12 | Credit: 1/2
Do you see a business management or ownership career in your future? Did you know that 32% of high school students enroll in a business program in college? Start working on your college degree now! 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. Virtual Management Simulation software will be used to assist students in running a business and making management decisions. Managers Hotseat is another management simulation used to put students into real life management scenarios, where they have to respond to a management situation in progress. Students may have the opportunity to visit Macy’s in New York City for a personalized marketing and/or business management tour. Students may earn college credit through agreement with HVCC.

Career Exploration Internship Program (CEIP)
Code: 201104 | Grade: 11-12 | Credit ½ or 1 | Pre-requisite: Application Process; coordinator approval.
Bethlehem’s Career Exploration Internship Program/Cooperative - Education offers a unique opportunity for students to intern at local businesses and to be trained by master craftsmen in the chosen area of skilled learning. The program is a combination of core academic curriculum and practical work-based 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.

Career & Financial Management
Code: 201115S | Grade: 9-12 | Credit: 1/2
Career and Financial Management 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

Computer Concepts & Applications
Code: 20116S | Grade: 10-12 | Credit: 1/2
This course provides a practical background in microcomputer basics and advanced microcomputer concepts and applications depending on the skill of each student. Students will receive hands-on experience learning and applying advanced features of the Microsoft Office Suite. The course is project-based and students will be required to work independently to complete projects. Students may earn college credit through agreement with HVCC.

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

Financial Accounting
Code: 201108 | Grade: 11-12 | Credit: 1/2
This course is designed to provide a solid foundation in basic accounting concepts, focusing on accounting techniques for a sole proprietorship, partnership and corporation. Topics covered include: accounting equation, accounting cycle, journalizing transactions, posting to the ledger, creating financial statements, petty cash, payroll, paying dividends, issuing stock, etc. Students will perform the accounting functions manually and through an Automated Accounting software program. College credit can be earned through 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
Did you know that you see over 3,000 advertisements daily? 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 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 have the opportunity to visit Macy’s in New York City for a personalized marketing and/or business management tour. Students may earn college credit through agreement with HVCC.

Sports Marketing and Management is a one-semester business elective. The course outline was developed as a collaborative effort involving business/marketing education staff from many New York State school districts. 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.

Sports Marketing and Management
Code: 201112 | Grade 10-12 | Credit: 1/2
Family & Consumer Sciences

Adolescent Development and Psychology
Code: 211101 | Grade: 10-12 | Credit: 1/2
This course is to help you better understand yourself and recognize your responsibilities to manage your life. You will develop the ability to understand the valuing process, 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 like little children and want to learn more about how they “tick,” why they do the things they do, or if you want to work with children one day, then this is the course for you. Major topic areas include prenatal care and development, social development, emotional development, cognitive development and physical development from birth to 11 years of age. This is all done through class discussions, group work, role-plays, observations, guest speakers and field trips. 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. Do you love to cook? Do you want to learn how to be a better cook? This course is for anyone who wants to learn to cook or is thinking about a career in culinary arts. Students will learn everything from correct measuring techniques to planning a meal. This will provide a strong foundation for students pursuing a career in; culinary arts, hotel or restaurant management, nutrition or dietetics. (A fee may be charged to cover the cost of foods over and above the staples used.) Students with a known allergy must have documented information on file with the building nurse.

Culinary Arts II
Code: 211104 | Grade: 10-12 | Credit: 1/2
Culinary Arts I is a mandatory prerequisite, no exceptions. Do you love to bake? Enrollment in this fun class will help you develop baking skills for personal and family enjoyment. The myriad of baking careers will be explored. Products to be made and enjoyed include cookies, cakes, breads, pies, pastries, crepes and many more. A fee may be charged to cover the cost of foods over and above the staples used. SCCC credit possible for CAI and CAII. Students with known allergies MUST have documented information on file with the building nurse.

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 working with young children? This course provides a close look at the child’s growth and development from conception to school age. You will study some theories of development, learn observation skills, and gain an understanding of child development from birth to school age. Additionally, you
will study social, emotional, intellectual and physical development of children. There will be an opportunity to observe and work with young children at an elementary school/daycare center. SUNY Cobleskill credit possible when preceded by Child Dev & Psychology.

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 this unit. 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. Offered in 2016-2017. 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 will develop basic skills in drawing, interior and architectural floor plans, with a focus on space planning, elements and principles of design. Topics will include furnishing, and appliances, conservation, green design, home technology and career opportunities. This class is ideal for anyone interested in architecture, interior design, real estate or construction.

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 work out the real cost of 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. The course will provide students with an understanding of financial literacy, cyber security, college prep (applying for financial aid, managing debt, and social awareness), values and goal setting, meal planning, housing options, and consumerism.

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 Education

Project Lead the Way:
Project Lead the Way® 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. Project Lead the Way 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, 439-4921 ext. 22048.

Civil Engineering and Architecture
Code: 204101 | Grade: 10-12 | Credit: 1 | Pre-Req: IED and Grade Level Regents Math & Science.
Civil Engineering and Architecture is a Project Lead the Way® 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 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 Numerical Controlled Manufacturing
Code: 204102 | Grade: 10-12 | 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 CNC curriculum will focus on a variety of topics including the physical properties of materials, CAD/DDP, computer programming, machining processes, CNC programming and machine operation, Cartesian Coordinate System, 3-D modeling, prototype development and related career opportunities. 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.

Digital Electronics
Code: 204103 | Grade: 10-12 | 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, flip-flop and sequential logic applications, shift registers and counters, gates, and digital circuit combinations. It is strongly recommended that the students have completed a basic electronics course or be a Regents level student. This Digital Electronics course may be taken as a fourth science elective course for graduation. 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.

Engineering Design and Development
Code: 204105 | Grade: 11-12 | Credit: 1 | Pre-Req: Introduction to Engineering & Design (IED) & Principles of Engineering
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
Introduction to Engineering & Design (IED), formerly CAD/DDP, is the foundation technology course in which students will learn basic 3D 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. A lab fee may be charged to cover the cost of materials for project work. This class is one of the PLTW courses that may yield college credit.

Principles of Engineering
Code: 204109 | Grade: 10-12 | Credit: 1 | Pre-Req: IED and Grade Level Regents Math & Science
This course is designed to help students understand the field of engineering/engineering technology. Principles of Engineering is a college level course in the “Project Lead the Way” pre-engineering curriculum. 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. A lab fee will be charged to cover the cost of materials for project work. This class is one of the PLTW courses that may yield college credit.

**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.

**Network Programming 1**

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

This Cisco Academy course offering will allow students to complete their CCENT certification exam in June. This class 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, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. A student fee is required to register for the certification exam.

**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 | Credit: 1/2 | Pre-Req: Woodworking 1
Students work on more difficult items of furniture, cabinet-making, fiberglass recurve bows, water skis, and other design constructions. The course has value for those interested in carpentry, cabinet making, furniture construction, pattern making and wood joining. A lab fee will be charged to cover the cost of materials for project work.
Students earn 4 units for each year of study in one Career & Tech area.

**Auto Body Collision Repair and Auto Body Refinishing** are one-year courses that offer instruction in repairing, refurbishing and painting damaged vehicles. Hands-on experience prepares students for entry-level positions in the auto body field. Students also can earn college credits through an agreement with Hudson Valley Community College (HVCC).

**Automotive Services/Small Engine Repair** is a career studies program for IEP students who want to learn hands-on at an alternative pace. Students learn about basic automotive and small engine maintenance and repair, service station duties and exhaust and engine systems, and work on actual customers’ vehicles. They are prepared for the NYS Inspection License exam, for entry-level employment and/or for the more advanced, two-year Auto Trades Technology course.

**Automotive Tech Prep** is a one-year, accelerated program that enables seniors to earn up to 12 college credits through agreements with HVCC, - Columbia-Greene Community College, Universal Technical Institute and the University of Northwestern Ohio. While this is a program for seniors, many students enroll in -Automotive Trades Technology as -juniors and then move up to Tech Prep.

**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 a paid 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 12 college credits through agreements with HVCC, Columbia-Greene Community College, Universal Technical Institute and the University of Northwestern Ohio. -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. Students learn the skills needed for entry-level positions in the construction and building maintenance fields. Upon completion, they may continue their studies in the Building Trades program or, if they have completed high school, continue learning through the Capital Region BOCES Adult Education program or at a community college.

**Computer & Network Technician/ Information Technology** is an exciting program that prepares students for a variety of certifications including A+ Certification, N+ Certification, S+ Certification and Cisco Systems certification. Students are trained in a state-of-the-art computer and electronics lab. This program can be a half-day or full day for Construction Education and Research (NCCER). Such certification provides students with a valuable skill set that is recognized by construction professionals nationwide. Students also can test for advanced standing at SUNY Delhi and HVCC. Recommendation: Pass Math A Regents.
depending on the student’s needs. Students can earn up to 9 college credits through agreements with SCCC, Fulton Montgomery Community College (FMCC), ITT, and SUNY Cobleskill. An application is required to be selected for Computer & Network Technician.

**Cosmetology** is a two-year program which offers instruction and practical experience in the skills necessary to work in a salon. Since 1,000 instructional hours are required to take the licensure examination, students must attend a summer session between their junior and senior years. Successful completion of the program qualifies students to take the New York State Cosmetology Licensure Examination. Students will be required to purchase their own kit costing approximately $140. Through an agreement with SCCC, students may earn college credit in Ethics.

**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 National Restaurant Association and 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.

**Culinary Arts Tech Prep** 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.

**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).

**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 are prepared for certification through the National Center for Construction Education and Research. Students can earn up to five college credits through agreements with HVCC, SUNY Delhi and Pima Community College, Arizona.

Recommendation: Construction Systems Technology.

Global Fashion Studies prepares students for careers and higher education in fashion and 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 and the Fashion Institute of Design & Merchandising in California.

Health Services is a one-year program that provides special needs students with education and clinical experience in healthcare settings. The program also can be used as a transition course for students interested in the Nurse Assistant Program. Many employment opportunities are identified throughout the course of study, and students develop an understanding of requirements to work in the healthcare field.

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 up to 4 college credits through agreements with HVCC and SUNY Delhi. - Recommendation: Math A Regents.

Internet Application Design students interested in designing for the Web, creating smart phone apps or videos, or learning about the latest security software will love Internet Application Design. This one-year course teaches Web technology for designers, video creation, Internet security, servers, e-commerce and smart phone applications. Students also focus on modules such as animation, digital photography, audio and video, Webcomics, game design, desktop publishing, programming and interfaces. They are prepared to take Adobe Certified Associate exams in Dreamweaver and Flash. Upon completion, they may continue their studies in Gaming, Multi-Media & Web Design, or Computer & Network Technician/ Information Technology, or at college.

Pet Tech is a one-year program designed for 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.

Retail and Office Services is a one-year program that is
Health Association First Aid certifications. The program sequences are broken down as follows: Certified Nurse Assistant/Personal Care Assistant (CNA/PCA) year: Students will learn total patient 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. Home Health Aide/Personal Care Assistant (HHA/PCA) year: 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 108 hours in a clinical 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.
ENGLISH

If a student believes that he or she 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 the literature of Great Britain from Beowulf to Margaret Atwood. The major literary periods studied are Anglo-Saxon, Medieval, Elizabethan, Age of Reason, Romantic, Victorian, and the 20th century. In addition, students read four 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, essays 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 through a gradual shift from summaries to comparison/contrast essays to analytical and evaluative writing.

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

English 10
Code: 202108 | Grade: 10 | Credit: 1 | Pre-Req: English 9E, 9.
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 global literature selections that will offer ample opportunity for interdisciplinary projects and approaches. 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 his/her 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 9E 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.

Excel English 9 & 10
Code: 202115-202114 | Grade: 9-10 | Pre-Req: Counselor-teacher –recommendation.
All students in either course must also enroll in corresponding EXCEL Global History 9/10. See Interdisciplinary Studies, page 37.

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 electives listed below are available to all 11th & 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 Language & Composition
Code: 202141 | Grade: 12 | Credit: 1 | Pre-Req: English 11 and recommendation of an 11th-grade English teacher.
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 evaluate, synthesize, and cite research to support their arguments. It is recommended that students have a 90 percent or better average in their previous English courses, including the Regents Examination in English, to ensure successful completion of this course. The Advanced Placement Examination is required of all students taking this course. There is a required summer assignment.

Advanced Placement English Literature & Composition
Code: 202103 | Grade: 12 | Credit: 1 | Pre-Req: English 11 and recommendation of an 11th-grade English teacher.

Advanced Placement English Language & Composition
Code: 202141 | 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 learn to respond to language with sensitivity and discrimination and to develop the ability to write in various forms. Writing assignments include practice in exposition, argument and critical analysis in personal narrative and 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. It is recommended that students have a 90 percent or better average in their previous English courses, including the Regents Examination in English and an R 670 or better verbal PSAT score to ensure successful completion of this course. The Advanced Placement Examination is required of all students taking this course. There is a required summer assignment.

Contemporary Literature
Code: 202105 | Grade: 11-12 | Credit: 1/2
This course will focus on critical reading of many themes manifested in contemporary literature. Students will also read excerpts from contemporary best sellers. Reading selections for this course are drawn from novels, -memoirs, short stories, essays, plays and poems. Writing assignments will include synthesis and analysis of contemporary themes. Course expectations include essays, oral presentions, creative projects and a critical evaluation of a contemporary self-selected novel.

College Composition
Code: 202129 | 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 are fiction, the college essay, personal reflection, and argumentation/persuasion. Research and documentation skills are reinforced in the composition of a biography. Students will read several short works and may read an extended work of fiction or nonfiction as determined by the teacher.

Creative Writing
Code: 202106 | Grade: 11-12 | Credit: 1/2
This course is designed to give students an introduction to the components of writing fiction and poetry. 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 description of a place or person, creative dialogue or building images and metaphors. Because this is a course in the fundamentals, we will look at stories, one-act plays and poems to see what makes them effective and then practice those techniques in writing our own original poetry, short story and one-act play. 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 address the student’s growth as a writer.

Detective Fiction
Code: 202107 | Grade: 11-12 | Credit: 1/2
This course will explore the development of the mystery/detective genre. Students will read a selection of novels and short stories from the past and present. Because this is such a diverse field, much of the reading will be self-selected, allowing for personal choice, whether a student is an Agatha Christie fan or into gritty police procedurals. We will also examine the detective genre in other media, like TV and film. Projects will include both creative and analytical writing, as well as primary research, so that students prepare for college and careers, while still getting to enjoy the kinds of books that many people read for fun their entire lives.

Expository Writing
Code: 202116 | Grade: 11-12 | Credit: 1/2
This course in writing builds on the concepts and methods employed in Composition. Using models of both fiction and nonfiction, students work on refining syntax, voice and appropriate style. Special emphasis is placed on cross-curricular writing. For example, students may deal with physics or social studies concepts in writings intended to be read and understood by lay persons. The completion of a research paper is a major part of the course.

Home Grown: Writers and Artists of New York
Code: 202137S | Grade: 11-12 | Credit: 1/2
This course exposes students to the many local writers, artists and poets who have been inspired by their residence in New York, and whose work is uniquely tied to the cultural and historical heritage of New York State. In largely seminar format, students will read and analyze texts by various authors and write in the style of the authors they have studied. A component of the course involves an independent study of an author where students will explore the social, cultural, and artistic impact that author has had on the local area. Students will have the opportunity to visit sites in the area that were significant to various historical authors as well as sites important to contemporary authors such as the NYS Writing Institute and Yaddo.

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, research poets, explore poetic forms and techniques and generate original works. 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
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.

Professional Communication
Code: 202138S | 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 the 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.

Sci-Fi/ Fantasy
Code: 202128 | Grade: 11-12 | Credit: 1/2
This Course examines various works of science fiction and fantasy literature. Readings may include novels, plays, myths and stories. Students will examine how these works fit the conventions of their genres, and will also look for thematic connections between these imagined worlds and their own lives. Written assignments may include both analytical and creative works. The final exam may take various forms, including oral presentations on outside reading or collections of original creative writing.
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.

Survey of Shakespeare  
Code: 202132 | Grade: 11-12 | Credit: 1/2
This class approaches Shakespeare not as a writer who worked on literature but as a playwright who created plays. Students play with the practical application of the world’s greatest playwright, focusing on words, rhythm, verse, intentions and the real-world version/visions of Shakespeare’s plays. The analysis of a live Shakespeare play is an integral component of this course. This elective explores several themes and characters in four Shakespearean plays—one each from The Comedies, The Tragedies, The Histories and The Romances. Students will read and perform each play. Background information will be discussed as well as modern literary, critical approaches so that students can form their own approaches and criticisms of the plays. Students will write an essay on a character from one of the plays studied and perform a scene with partners for the final exam.

Theatre Arts  
Code: 202133 | Grade: 10-12 | Credit: 1/2
This course is designed for students interested in dramatic performance, from plays to poetry recitation to oratory.
HEALTH & PHYSICAL EDUCATION

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

Note: The New York State Education Department Commissioner’s Regulations Part 135.3 (c) (2) (i) states that “no pupil shall be required to receive instruction concerning the methods of prevention of A.I.D.S. if the parent or legal guardian of such pupil has filed a letter with the principal of the school which the student attends stating that the pupil will receive such instruction at home.”

Students with Medical Conditions: Students who have a documented medical concern that places them out of physical education instruction for four weeks or greater in one semester will be placed on a reading program. The reading program focuses on instruction in health-related fitness and comprises a short essay, project and quiz for each chapter.

Adaptive Physical Education
Code: 209113-209114 | Grade: 9-12 | Credit: 1/2
This program is developed to meet the needs of those students who cannot participate in the regular Physical Education program. It would include work with groups of limited size and be aimed at specific individual needs, as recommended by the adapted Physical Education specialist and their I.E.P. or 504 plan.

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.
5. Application submission no later than the last day of classes.

Physical Education Alternative Study Option (One semester only)
Grade: 12 | Credit: 1/4
This program is open to seniors only who will be enrolled in an alternative activity of study during the semester of exemption and meet the requirements outlined below. The program of study must be “instructional in nature, assess skills or strategies learned and meet the same time requirements of their regular physical education class.” Only programs not offered within...
the Physical Education and Athletic programs will be considered. Additional information and applications are available in the Supervisor’s office. Physical Education Eligibility 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. Alternative Study documents are submitted to the District Physical Education office by the last day of classes for 1st semester and November 1st for 2nd semester.

Health Education
Code: 210101 | Grade: 10-12 | Credit: 1/2
Required of all students sometime during high school, preferably during 11th grade. Content includes physical and mental health, sociological health problems, environmental and community health and safety. Specific units deal with communication, values clarification, consumer education, CPR, parenting education, nutrition, human relations and our relation to the environment in terms of maintaining health.

Physical Education 9
Code: 209109-209111 | Grade: 9 | Credit: 1/2
The grade 9 curriculum focuses on the principles of health fitness, educational karate, aquatics and track & field.

Physical Education 10
Code: 209101-209103 | Grade: 10 | Credit: 1/2
The first semester is focused on team sport. 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: 209105-209107 | 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
First semester only. 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. Upon successful completion of this course students may use the Alternative Activity Study in their senior year to work in the fitness center as a student assistant.

Introduction to Coaching
Code: 209129 | Grade: 11-12 | Credit: 1/4
Second semester only - Monday & Wednesday. This course meets the requirement
for one semester of Physical Education and will meet period 9 and is designed for students interested in coaching youth sports. It is designed to provide an overview of how to develop and implement a season plan for coaching at the youth level. This course will cover ethics, sportsmanship & fair play, communication with parents & players, conditioning & nutrition, instruction management skills, goal setting, age-appropriate instruction, teaching skill acquisition, player & game evaluation, and how to develop a practice plan & season block plan. The final project will be a sport specific season plan. Successful completion of this course would allow the student to use the Alternative Activity Exemption to coach a youth sport their senior year in lieu of Physical Education.
INTERDISCIPLINARY STUDIES

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

EXCEL Interdisciplinary Team:
- EXCEL English 9 202115
- EXCEL English 10 202114
- EXCEL Math 9 205117
- EXCEL Math 10 205116
- EXCEL Science 9 207115
- EXCEL Science 10 207114
- EXCEL Global 9 208111
- EXCEL Global 10 208110

The EXCEL Program seeks to provide a team-teaching approach at the High School in the four major subject areas of English, social studies, science and mathematics. Such an approach will allow team members, through monitoring of student progress, to develop lessons and student activities that will nurture student development.

The Core Academic Program and Curriculum will address the specific testing requirements and diploma requirements needed for graduation and for fulfillment of the mandates imposed by the Regents Action Plan.

The EXCEL Program is designed to meet the needs of 9th-grade and 10th-grade students in the following categories:

- Those who will benefit from smaller classes.
- Those who will benefit from an emphasis on skill development

EXCEL English 9
Code: 202115 | Grade: 9 | Credit: 1 | Pre-Req: English 8.
Students must also enroll in corresponding EXCEL Global History 9. The literature in EXCEL 9 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 The Outsiders, Romeo and Juliet and Of Mice and Men. Short stories are centered on adolescent themes. Areas of instruction include oral presentations, vocabulary development and grammar. This course meets the requirements of the ELA standards and includes instructional opportunities required by the English Regents examination.

EXCEL English 10
Code: 202114 | Grade: 10 | Credit: 1 | Pre-Req: English 9.
Students must also enroll in corresponding EXCEL Global History 10. 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 Catcher in the Rye, Macbeth and One Flew Over the Cuckoo’s Nest. Short stories include a horror unit. 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 9
Code: 208111 | Grade: 9 | Credit: 1 | Pre-Req: Students must also enroll in corresponding EXCEL English. 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.

EXCEL Algebra I A
Code: 205136 | Grade: 9 | Credit: 1
This course is designed for students who have experienced difficulty with math. It covers a selection of topics taught in the Algebra I course. Emphasis is on a practical approach, stressing applications. Students enrolled in this course will take a local final exam at the end of this course. This course satisfies one year of the graduation requirement of three years of math.

EXCEL Algebra I B
Code: 205137 | Grade: 10 | Credit: 1 | Pre-Req: Successful completion of Applied Algebra. 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 Examination in Algebra I (Common Core) as their final test.

EXCEL Science 9
Code 207115 | Grade: 9 | Credit: 1
EXCEL Science 9 is the first year of a two-year academic program on the Living Environment, culminating in the Regents Living Environment 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 Living Environment 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 | Grade: 10 | Credit: 1 | Pre-Req: EXCEL Science 9.
EXCEL Science 10 completes the two-year academic program on the Living Environment, culminating in the Regents Living Environment 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.

**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.

**LAB SCHOOL**
The Lab School is a special program that represents the concept of “a school within a school.” It is an innovative program open to all students in grades 9-12 who would like to experience high school a little differently. Lab School students come from all ability levels and participate in a Regents-level curriculum that includes teamwork, interdisciplinary instruction and the concept of the school as a community (students do not qualify for an advanced regents diploma). The Lab School program stresses project work, presentations and writing skills. Our student population is similar to the traditional high school, and the majority of our students attend four-year colleges just like the traditional high school population.

Lab School teachers work with students over multiple years, and students and teachers develop close relationships. Lab School students spend most of their day in academic classes with other Lab School students. However, World Languages, electives, physical education and lunch periods are shared with the traditional school. All music organizations are available to Lab School students, as are all other extracurricular activities in the High School.

The most important concept in the Lab School is making a large school seem small. The Lab School is a team that includes teachers, students and parents actively involved in the educational process together. More information is available on the Lab School link of the High School web page, in the Counseling Center and/or from any Lab School teacher.

**An overarching philosophy**
By focusing intensely on fewer subjects, students and teachers together are able to work on the development of skills in problem solving, communication, teamwork and content mastery.

**Team building**
Taking part in annual fall and spring retreats, as well as other field trip experiences during the school year, allows the Lab School students and teachers build a strong sense of community with team building exercises and outdoor challenge activities. The rapport built with these activities and trips carries strong academic payoff throughout the year. These retreats also include a variety of guest speakers who are able to enrich the curriculum for the Lab School.
Once every two weeks, the Lab School faculty and students come together for a Community Meeting to engage in team building activities, plan for events and participate in scholarly discussions with guest speakers.

**Challenging each student**
The Lab School is committed to providing an intellectual and personal challenge for each student. Because of its small size, the Lab School, working together with a family, is often able to tailor programs to meet the needs and styles of the individual student. Furthermore, Lab School teachers use remediation, which allows a student to revisit a lesson in order to gain mastery of a topic or lesson before moving on to the next topic.

**Community service requirements**
Lab School stresses the importance of giving back to, and understanding one’s role, in the community. In that light, freshmen, sophomores and juniors in the Lab School are required to accrue 15 hours of community service each school year in order to graduate from the program.

**College admissions**
Lab School students have been accepted to and are attending more than 70 different colleges, including four-year private and public institutions. Lab School students are attending the same universities as students who attend the traditional High School. Lab School students have received an average of $2 million in scholarship offers each year.

**Connections with the High School**
Lab School students maintain close ties to the rest of the High School through sports, after-school clubs, lunch periods, homeroom, electives and shared physical education classes. Students in the Lab School are very much a part of the Bethlehem High School community as well.

**Lab School Academics**

**Lab School Research 9-11**
These required classes in the Lab School teach students how to do an extensive thesis-based research paper and thorough oral presentation. Freshmen in the Lab School spend the school year being introduced to the effective use of databases, learning how to construct a properly formatted thesis paper, and composing an effective oral presentation about one’s research. Each semester all Lab School sophomores and juniors complete a research project on a topic of their choice and spend the entire 20-week semester working on it. At the end of the semester a major presentation is given to a board of examiners. The focus of this class is to develop these skills for all students.

**Lab School Research 12**
Over the course of their senior year, as a graduation requirement, all Lab School students take part in a major internship experience (175 required hours) that puts them squarely in the midst of the adult working world. Students find this to be a rewarding and maturing experience, and one that affords them a clearer notion of the course of study they may pursue in college. Students must successfully complete a position-based thesis paper and a 45-minute presentation based on an issue in the internship field in order to graduate from Lab School.
Electives
All high school music ensembles are open to Lab School students, as is a selection of elective courses such as art, technology, psychology, marketing and others that change from year to year. These courses will be selected each school year during the course advisement period with a student’s school counselor.

Lab School English Language Arts

Lab School English 9
Code: 202122 | Pre-Req: English 8.
Students will read several works of fiction and non-fiction, compose and edit several writing pieces, prepare and perform many oral presentations, and begin preparations for the New York State Comprehensive English Regents exam. Reading selections in this course include novels, short stories, plays, essays and poetry. Students learn the skills of organization and development of examples to support opinions through a gradual shift from summaries to comparison/contrast essays to analytical and evaluative writing. Support for the Lab School Research Class is provided in this course.

Lab School English 10
Through the use of a variety of literary sources students will gain an understanding of the structure of literary forms, style, and themes. Students will focus on developing the ability to critically analyze literature and their own writing. Listening and speaking skills are sharpened through a variety of individual and group projects. Additional support for the Lab School Research Class objectives is provided. Continued practice and preparation for the NYS Comprehensive English Regents exam takes place throughout the school year.

Lab School English 11
Code: 202120 | Pre-Req: English 10.
With a concentration on American Literature, students will explore full-length literary works, short stories, and poems to read, write, listen to, and analyze; master designated vocabulary; review 9th and 10th grade grammar elements and master 11th grade grammar elements; continue prep for Regents exam, ACT and SAT; additional support of the Lab School Research Class objectives is provided.

Lab School English 12
Code: 202121 | Pre-Req: English 11.
The early part of the first semester of Lab School English 12 focuses on college prep and readiness, with students composing resumes and portfolios to include with their college applications. The course then transitions into an analytical study of full-length literary works, short stories and various non-fiction pieces. Students will focus on learning to compose and present critical analysis of the written and spoken word.

Lab School Mathematics

Lab School Mathematics LEVEL 1
Code: 205122
This course is designed for students of average or higher ability who 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 Common Core Algebra 1 Learning Standards published by the New York State Department of Education. The Regents Examination in Algebra I (Common Core) is taken at the end of the course.

Lab School Mathematics LEVEL 2
Code: 205123 | Pre-req: Successful completion of Level 1 Math, Algebra I or 8th Grade Accelerated Math.
This course teaches topics associated with geometric relationships, constructions, locus, transformational...
geometry, and coordinate geometry.

Lab School Mathematics LEVEL 3
Code: 205124 | Pre-req: Successful completion of Level 2 Math.
This course covers advanced Algebra topics with an emphasis on algebraic techniques, trigonometry, and real world applications of these topics. It prepares students for later, higher-level math courses.

Lab School Mathematics LEVEL 4
Code: 205125 | Pre-req: Successful completion of Level 3 Math.
This course is a Pre-Calculus class. Topics include an advanced study of the behavior of functions (Linear, Quadratic, Higher Degree Polynomials, Exponential, Logarithmic, Polar), Linear Programming, the Conic Sections, and Regression Models.

Lab School Sciences
The Lab School offers an integrated curriculum in the sciences that meets New York State regulations and Regents requirements. Students leave the lab school science program with a Regents Diploma.

Lab School Science 9
Code: 207119
This biology course emphasizes a number of themes, including cell study and biochemistry, energy, anatomy and physiology of selected organisms, reproduction and development, genetics, evolution, diversity and ecology. A variety of methods may be employed to enhance the learning of concepts. Students will have multiple enrichment activities outside the classroom to build upon the content taught in the classroom.

Lab School Science 10
Students will continue their work within the Lab School 9 curriculum and focus on this material for the Regents examination in January. The course emphasizes a number of themes, including cell study and biochemistry, energy, anatomy and physiology of selected organisms, reproduction and development, genetics, evolution, diversity and ecology. 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 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.

Lab School Science 11
Code: 207120 | Pre-req: Lab School Science 10
Chemistry is a first year chemistry course designed for third 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, Water Quality, Nuclear Chemistry, Bonding and Atomic Structure. There is no lab connected to this class and students must not have the lab minutes to sit for the Regents Chemistry exam.

Lab School Science 12
Code: 207121 | Pre-req: Lab School Science 11.
The focus of the course will be on increasing students’ understanding of the types of general physical principles that apply directly to physical science professions. These principles will include concepts related to motion, mechanics, work & energy, momentum, heat, fluids, waves, electricity, magnetism and electromagnetism. There is no lab connected to this class. Students may need to complete
extra work to have the lab minutes to sit for the Regents Physics exam.

**Lab School Social Studies**

**Lab School Global History 9**
Code: 208118
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.

**Lab School United States History & Government 11**
Code: 208120 | 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.

**Lab School Global History 10**
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.

**Lab School Social Studies 12**
Code: 208119 | Pre-Req: Social Studies 11.
The first semester of 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. Additionally, all students will complete the Lab School Community Service Initiative. The second semester is 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. Additionally, all students will need to successfully complete the Business Fair project in order to graduate.

**Lab School STEM Honors**
Code: 219116S (S1), 219117S (S2) | Pre-Req: Lab School Research 9, Semester 1 Science, Technology, Engineering, and Math Honors is an elective for Lab School students from grades 9-12 designed to stimulate interest in STEM. Course work includes independent study and one to one weekly meetings with the instructor. Students will work on various guided assignments in computer science, engineering, chemistry, math, nature, and research to develop an understanding to
the interdisciplinary approach to problem solving. Students are exposed to concepts and curriculum that will help them be prepared for the increasing use of technology in the science and math fields.

Lab School Humanities Honors
Code: 219114S (S1), 219115S (S2) | Pre-Req: Lab School Research 9
For thousands of years, people have been using art, history, music, philosophy, literature, and religion to record and document the human experience. By studying these fields we can develop an understanding of our past, the world we live in today, and an idea of what our future may look like. The Honors Lab School Humanities course will require students to take a look at the fields of art, history, music, philosophy, literature, and religion so that they can gain a better understanding of the human experience in general, but more importantly their connection to that experience. This course is an elective that requires weekly meetings, independent completion of course requirements, and hands-on learning.
MATHEMATICS AND COMPUTER SCIENCES

Mathematics
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.

Graphing Calculators
Graphing calculators are 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. The TI-84 (Plus CE, Plus C Silver Edition, Plus Silver Edition, or Plus) is recommended for student use. The TI-84 will be used for classroom demonstrations and while other graphing calculators perform the same tasks, the interface and keystrokes may be completely different, making it extremely difficult for students to follow along. The TI-84 can be upgraded and is acceptable on Regents exams and other standardized tests (ACT, SAT, AP).
EXCEL Algebra I A
Code: 205136 | Grade: 9-10 | Credit: 1
This course is designed for students who have experienced difficulty with math. It covers a selection of topics taught in the Algebra I course. Emphasis is on a practical approach, stressing applications. Students enrolled in this course will take a local final exam at the end of this course. This course satisfies one year of the graduation requirement of three years of math. This course is also listed under Interdisciplinary Studies, page 38.

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 Examination in Algebra I (Common Core) as their final test. This course is also listed under Interdisciplinary Studies, page 38.

Algebra I AB
Code: 205138 | Grade: 9 | Credit: 1 | Pre-Req: Math 8
This course is designed for students of higher ability who 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 Common Core Algebra I Learning Standards published by New York State Department of Education. This course will also include topics not included in the Common Core Algebra I curriculum that will help better prepare students for more advanced mathematics, i.e. Algebra II AB, Precalculus, and Calculus. The Common Core 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 what 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 Common Core Algebra I Learning Standards published by New York State Department of Education. The Common Core Algebra I Regents exam will be taken at the end of this course.

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

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 Common Core Geometry Learning Standards published by the New York State Department of Education. The Regents Examination in Geometry (Common Core) 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
(Common Core) is taken at the end of the course.

**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 students who are 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 in even greater depth and explored at a higher level of difficulty. Assessments will reflect this challenge level. The Regents Examination in Geometry (Common Core) is taken at the end of the course.

**Algebra II**

**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 pace presentation. It is the first year of a two-year sequence, preparing students for the Regents Examination in Algebra II (Common Core) at the end 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.

**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, coordinate geometry, trigonometric functions, measurement, and statistics and probability as delineated in the Common Core Algebra II Learning Standards published by the New York State Department of Education. The Regents Examination in Algebra II (Common Core) is taken at the end of the 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 (Common Core) is taken at the end of the course.

**Applied Advanced Mathematics**
Code: 205107 | Grade: 12 | Credit: 1 | Pre-Req: Successful Completion of 3 years of high school mathematics.
This course is designed for students who have experienced difficulty with math, but would like a fourth year of math credit. It provides a general survey of mathematical topics that are useful in our modern world. Students would also see these topics in an introductory college math course.

**Pre-Calculus**
Code: 205129 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of Algebra II AB.
This course offers a study of higher degree equations, math induction, polar coordinates, limits of sequences and series, differentiation processes for algebraic functions and applications of the derivative in curve sketching and in problem solving as well as a study of the structure of the mathematical systems by an examination of matrix and group theory and an introduction to analytic geometry from a vector.
approach, including vector properties and operations, conic sections and transformations.

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.

Honors 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.

Advanced Placement Statistics
Code: 205106 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful completion of Honors Algebra II BC or Algebra II AB.
This is the third advanced placement course in math. 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.
It is designed to be taken either as an alternate to AP Calculus or in addition to it. The AP Exam is required of all students taking this course.

Calculus
Code: 205129 | Grade: 12 | 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. The final examination is a compilation of exams given in January and June.

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.

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.

**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 the University at Albany.

**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 the University at Albany.

**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.

**Introduction to Computer Science**

*Code: 205138 | Grade: 10-12 | Credit: 1 | Pre-Req: Successful completion of Honors Geometry BC or Geometry AB.*

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.

**Advanced Placement Computer Science**

*Code: 205130 | Grade: 10-12 | Credit: 1 | Pre-Req: Successful completion of Introduction to Computer Science.*

AP Computer Science is an introductory college-level computer science course that emphasizes object oriented programming methodology as well as problem solving. The course emphasizes the process of problem solving in addition to the solution itself. High-level thinking skills are developed as students utilize "real-life" skills such as problem analysis, organizing a solution and knowledge of computer control. Students will learn JAVA programming language to meet the goals of the course.
MUSIC

Advanced Placement Music Theory
Code: 206101 | Grade: 10-12 | Credit: 1 | Pre-Req: Music Theory.
An advanced level music theory program that expands on information and conceptual understandings from Music Theory I. Emphasis will be placed on the skills of composition, performance and listening. In-depth activities in the principles of harmony, rhythm, form and the analysis of the techniques of musical composition from representative musical periods will be discussed. The end of the year will culminate in projects involving the use of the Virtual Arts Center. The Advanced Placement Examination is required of all students taking this course.

Choristers
Code: 206105 | Grade: 9-12 | Credit: 1
Open enrollment. This musical ensemble offers a comprehensive musical experience for students interested in being part of a choral ensemble. They sing 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.
The 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.

Choraliers
Code: 206104 | Grade: 10-12 | Credit: 1 | Pre-Req: Audition required.
This organization is a select 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.

Concert Orchestra
Code: 206107 | Grade: 9-12 | Credit: 1 | Pre-Req: Previous orchestral experience.
The 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: 10-12 | Credit: 1 | Pre-Req: Audition required.
The 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.
The 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 In Our Lives**
Code: 206109 | Grade: 9-12 | Credit: 1 | Pre-Req: Open Enrollment.
Music In Our Lives is a full-year general music course developed by the New York State Education Department to allow students not participating in a credit-bearing ensemble to meet the Commissioner’s Regulations graduation requirement of one year of high school music or art. Its purpose is derived especially from the Statement of Regents Goals that “each student will acquire the knowledge, understanding and appreciation of the artistic, cultural and intellectual accomplishments of civilization and develop the skills to express personal artistic talents.” Students will develop music-listening skills, create and perform music, communicate an informed response to music, develop an appreciation of music as life-long activity and enrichment, discover and develop their musical potential and acquire the knowledge and skills requisite for continued musical study. Assessment will include traditional tests and quizzes, performance critique and portfolio evaluation.

**Symphonic Band**
Code: 206111 | Grade: 10-12 | Credit: 1 | Pre-Req: Audition required.
This organization 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.
SCIENCE

If a student believes that she or he may be qualified for a specific course without having completed its prerequisites, the student is welcome to discuss the matter with the district’s science supervisor.

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: Biology and Regents Chemistry or Chemistry.
Advanced Placement Biology provides students with the opportunity to pursue an in-depth study of general biology through a laboratory-oriented approach. College course credit or placement may be obtained through the Advanced Placement Biology Exam. A great deal of emphasis will be placed on laboratory activities and the study of the text. Students should expect to devote a moderate amount of time beyond the scheduled class periods in completing laboratory activities and one final project. Areas of study will include Chemical Basis of Biology, Cells, Enzymes, Energy Transformations, Cell Reproduction, Heredity and Genetics, Cell Specialization, Origin of Life, Structure and Function in Plants, Plant Development, Animal Development, Ecology and Evolutionary Biology. Class is scheduled for six periods per week with the sixth period providing for laboratory experience. The Advanced Placement Exam is required for all students taking this course. It is recommended that the student have a score of 55 or better on the math PSAT and have grades of 85+ in both biology and chemistry. A recommendation from the previous science teacher is also strongly suggested. Students who elect to take AP Biology without having fulfilled the Regents Biology pre-requisite must have successfully completed the Regents Chemistry or Advanced Chemistry course of study.

Advanced Placement Chemistry
Code: 207104 | Grade: 11-12 | Credit: 1 | Pre-Req: Enriched Earth Science (Regents) and/or Enriched Biology (Regents) and Advanced 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 Advanced 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
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.

Advanced Placement Environmental Science
Code: 207105 | Grade: 11 or 12 | Credit: 1 | Pre-Req: At least two of the following: Earth Science (Regents), 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.

Advanced Placement Physics
Code: 207106 | Grade: 11-12 | Credit: 1

The course in Advanced Placement Physics is intended to be representative of courses commonly offered in colleges and universities. It is designed to provide a more rigorous investigation of the topics studied in Regents Physics. The subject matter of the course is principally mechanics, and electricity and magnetism with approximately equal emphasis on these two areas. Laboratory work will be an integral part of the course. Students may obtain college credit or placement by taking the two Advanced Placement Physics Examination. Class is scheduled for six periods per week with the sixth period providing for a laboratory experience. The advanced placement exam in Physics I is required for all students taking this course. It is highly recommended that the student have completed Algebra 2 and be presently enrolled in Pre-Calculus or Calculus.

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 learn about the various instruments used to study the universe and problems faced by astronomers.

The Atmosphere (Climate and Forecasting)
Code: 207129 | Grade: 11-12 | 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: Living Environment**  
**Code:** 207107 | **Grade:** 9-12 | **Credit:** 1  
Regents Biology is designed for students who anticipate being involved in post-secondary education. The course emphasizes a number of themes, including cell study and biochemistry, energy, anatomy and physiology of selected organisms, reproduction and development, genetics, evolution, diversity and ecology. 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 in order to be eligible to take the State Regents Exam. A variety of methods may be employed to enhance the learning of concepts.

**Chemistry**  
**Code:** 207109 | **Grade:** 10-12 | **Credit:** 1 | **Pre-Req:** Earth Science (Regents) or Enriched Earth Science (Regents), and Biology (Regents) or Enriched 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. Regents Chemistry is a first-year chemistry course designed for students who desire an introduction to chemistry. Topics of study include: Atomic Concepts, Periodic Table, Moles/ Stoichiometry, Chemical Bonding, Physical Behavior of Matter, Kinetics/ Equilibrium, Organic Chemistry, Oxidation-Reduction, Acids, Bases, and Salts, and Nuclear Chemistry.  
**Emphasis is placed on the preparation for the NYS Regents Exam in Chemistry which also serves as the final examination.**  
A “school level” mid-year examination will be administered at the end of the first semester. Each of the examinations (mid-year and Regents exam) will count as 1/6 of the final course grade. Students are required to complete 1200 minutes of laboratory work and to submit acceptable written reports in order to be eligible to sit for the NYS Regents exam. Class is scheduled for six periods per week with the sixth period providing for laboratory experience.

**Contemporary Issues in Science**  
**Code:** 207110 | **Grade:** 11-12 | **Credit:** 1/2 | **Pre-Req:** At least two years of science.  
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 Science
Code: 207111 | Grade: 9-12 | Credit: 1 | Pre-Req: Grade 8 Science. This course is designed for ninth-grade students except those taking EXCEL Science 9. Application of concepts is a major part of this course. The Earth's many dynamic systems will be explored. 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 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. It is strongly recommended that the student have already completed or be currently enrolled in an Algebra course.

EXCEL Science 9
Code: 207115 | Credit: 1
See Interdisciplinary Studies, Page 38.

EXCEL Science 10
Code: 207114 | Credit: 1
See Interdisciplinary Studies, Page 38.

Forensic Science
Code: 207116 | Grade: 11-12 | Credit: 1/2 | Pre-Req: Two years of successful Science Completion. 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
This course will include and expand upon the topics taught in the Regents Biology: Living Environment course. Course content will also be taught in greater depth and sophistication and at a faster pace to help prepare students for the optional SAT II subject test in Biology. Students will use scientific methods and primary and secondary literature to complete quarter projects and class assignments. The course is designed for students who have shown exceptional interest and achievement in middle school science or Regents Earth Science. Class is scheduled for six periods per week so that students can complete the laboratory requirements necessary to take the State Regents Examination.

Honors Chemistry
Code: 207101 | Grade: 10-12 | Credit: 1 | Pre-Req: Earth Science (Regents) and Biology (Regents), or Enriched Earth Science (Regents) OR Enriched Biology (Regents), 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 Enriched Earth Science and/or Enriched Biology, or Regents Chemistry. Advanced Chemistry is designed for students who desire an extremely rigorous chemistry course. 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 Electrochemistry, Nuclear Chemistry, and Organic Chemistry. Extensive use of mathematics and critical thinking will be needed in order to solve many of the theoretical and experimental problems in this course. Students will be expected to complete a number of independent study topics. Emphasis is placed on the preparation for the SAT II Subject Test in Chemistry. A “school level” mid-year and the Chemistry Regents
examination will be administered at the end of the appropriate semester and each will count as 1/6 of the final course grade.

Students are required to complete 1200 minutes of laboratory work and to submit acceptable written reports in order to be eligible to sit for the NYS Regents Exam in Chemistry.

Class is scheduled for six periods per week with the sixth period providing for laboratory experience.

**Honors Earth Science**

Code: 207113 | Grade: 9-12 | Credit: 1 | Pre-Req: Grade 8 Science.

Successful completion or current enrollment in Geometry is strongly recommended. The topics of this course will be the same as the regular Earth Science course but they will be explored in greater depth and at a faster pace. More quantitative treatment of concepts and principles will also be provided. Students may be required to complete long-term, independent research and/or projects. Class is scheduled for six periods per week so that students can complete the laboratory requirements necessary to take the State Regents Examination. This course is designed for students who have shown exceptional interest and achievement in middle school science.

**Human Anatomy and Physiology**

Code: 207117 | Grade: 11-12 | 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. Weekly laboratory experiences are provided, and written lab reports are required.

**Natural Disasters of the Restless Earth**

Code: 207122 | Grade: 11-12 | 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 such as the “Year Without a Summer,” the tsunami of 2004, the Johnstown Flood of 1889 and the 1906 quake in San Francisco. 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.

This course presents a modern view of physics with major emphasis on the fundamental concepts underlying this basic science. Five areas are studied: mechanics, waves, electricity, magnetism and atomic and nuclear physics. The behaviors of the physical environment in these areas are explored and the basic principles are applied to a wide variety of problems and situations. Students are required to complete at least 1,200 minutes of laboratory work and to submit written reports on laboratory problems. Class is scheduled for six periods per week with the sixth period providing for laboratory experience.

Emphasis is placed on preparation for the State Regents Exam. Successful completion of the laboratory program is necessary in order for a student to be eligible to
take the NYS Regents Exam. It is recommended that the student have either completed or be currently enrolled in Algebra 2.

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

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 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 / 207127 / 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. The senior year will be utilized in writing the research and presenting it at science competitions.

**Wildlife Biology**  
Code: 207130 | Grade: 11-12 | 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, audio-visual 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 quarter projects.
SOCIAL STUDIES

If a student believes that he or she may be qualified for a specific course without having completed its prerequisites, 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. The Advanced Placement Examination is required of all students taking this course. 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.

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. This course includes an online component, visiting artists and museum experiences. AP Art History requires a summer assignment. Offered every other year.

Advanced Placement
Economics, Participation in Government (Micro/Macro)
Code: 208104 | Grade: 12 | Credit: 1
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, 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. **A summer assignment is a requirement of this course.** The Advanced Placement Examination is required of all students taking this course.

**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 examine critically 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

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.** 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.

**Advanced Placement World History**
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.**

**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 38.
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
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 New York 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 New York City’s astonishing dominance and allure over many eras of American history. This course may be offered every other year.

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

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.

Public Affairs – 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 $336. Students who successfully complete the course will receive 3 semester credits from Syracuse University. Additionally, all students will complete 20 hours of community service.

Psychology
Code: 208125 | Grade: 10-12 | Credit: 1/2
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.
Race and Identity: Real or Imagined
Code: 208127 | Grade: 10-12 | Credit: 1/2
This course will take an in depth, analytical look at the history of race and identity in the United States and how these two concepts mold our interactions with one another. It will provide students with the opportunity to learn about minority cultures in the United States and how these groups contributed to the development of the United States. 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 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.

United States 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

Native and heritage language speakers are discouraged from taking introductory level courses of a language that they hear and understand at home. Please contact the department supervisor for help in selecting an appropriate course.

*LOTE = Language Other Than English

Latin 1
Code: 203144 | Grade: 9-12 | Credit: 1
Comprehension of written Latin and the understanding of the relationship between the Latin language and our own language provide an unshakeable foundation in the Classics. For students interested in history, the structure of language or future careers in medicine or law, the knowledge of Latin will serve to improve their acquisition of new information. Learning about pronunciation of the language, vocabulary and structure, history of the Romans, derivatives, and Latin phrases and abbreviations commonly used in English helps students improve their knowledge of English and develop a greater understanding of history and culture.

Latin 2
Code: 203124 | Grade: 10-12 | Credit: 1 | Pre-Req: Latin 1
Comprehension continues to be developed through reading in Latin. Students learn about the mythological and legendary origins of Rome from the time of the organization of the Roman Republic through the second century B.C., and the Roman virtues of devotion to duty, courage, and loyalty, as exemplified in the stories of the early Roman heroes. The study of vocabulary, the structure of the language and etymology continue to be part of the second-level program. Portions of this course will be delivered via an on-line platform.

Latin 3
Code: 203143 | Grade: 11-12 | Credit: 1 | Pre-Req: Latin 2
Latin 3 enables students to take their study of this historic language and culture to an intermediate level. Students expand their mastery of vocabulary and grammar of Latin and begin to use the language for communication. Students are able to read foundational classics in authentic Latin, expanding their knowledge and understanding of the philosophical and political underpinnings of Western civilization. This course concludes with the Comprehensive LOTE Checkpoint B Exam in Latin. Portions of this course will be delivered via an on-line platform.

Advanced Latin
Code: 203102 | Grade: 11-12 | Credit: 1 | Pre-Req: Latin 2
Students who have successfully completed Latin 3 have the opportunity to develop advanced skills in Latin language and literature. Selected works of literature by ancient Roman authors form the foundation for the course. Oral and written reports will be assigned. Activities designed to help students better understand Roman history and culture and their impact on modern times will be included. 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 three college credits.

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 LOTE 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 LOTE 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 LOTE 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 LOTE 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 State University of New York. 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 State University of New York. 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. Portions of this course will be delivered via an on-line platform.

Introduction to Spanish
Code: 203127  |  Grade: 9-12  |  Credit: 1  |  For students with no prior Spanish study.
This course provides a comprehensive introduction to Spanish, starting with Hello, How are you? Students learn basic forms of interpersonal communication and foundational vocabulary. Key grammar structures are learned to support the functional use of Spanish for communication.

Spanish 1
Code: 203129  |  Grade: 9-12  |  Credit: 1  |  Pre-Req: At least 1 semester of successful Spanish study. This course is designed for students who have some prior study in Spanish and would benefit from a comprehensive review of middle school Spanish curriculum. Building upon this foundation, students learn additional vocabulary and grammatical structures while continuing to learn about the many cultures who speak Spanish. Continued study in Spanish 2B is encouraged.

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 LOTE 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 LOTE 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 LOTE 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 3B
Code: 203155  |  Grade: 10-11  |  Credit: 1  |  Pre-Req: Spanish 2B.
A continuation of Spanish 2B, this course helps students expand their ability to speak, listen to, read and write in Spanish. Via stories, short readings, movie shorts and other media, students engage with the Spanish language and Hispanic cultures as they practice communicating in another language and with other cultures. The course concludes with the LOTE Checkpoint B Comprehensive Exam in Spanish.
Pre-College Spanish Culture and Conversation
Code: 203152 | Grade: 11-12 | Credit: 1 | Pre-Req: Spanish 3 or Spanish 3B.
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 LOTE 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.

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 Common Core State Standards for ELA.
**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 can be substituted.

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**FOUR-YEAR WORKSHEET (Tentative)**

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**TOTAL UNITS**

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Date ____________________________ Name ____________________________
Counselor______________________

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