KEY PEOPLE TO HELP YOU

Mr. Michael Klugman, Interim Principal
439-4921, ext. 22909

Mrs. Heather Culnan, Assistant Principal
439-4921, ext. 22919

HALL PRINCIPALS
Mr. Anthony Malizia, Grades 9/11, ext. 22008
Mrs. Jacqueline Monroe, Grades 10/12, ext. 22009

SPECIAL EDUCATION STUDENT SERVICES
Mr. Kyle O’Brien, CSE Chair, 439-8886

COUNSELING CENTER
Mrs. Kristen Connor, Counseling Center Supervisor
439-4921, Ext. 22950

Counselors:
- Ms. Katherine Burkart
- Mr. Scott Carlton
- Dr. Lisa Carr
- Mr. Darnell Douglas
- Mrs. Joanne Honeywell
- Ms. Gayle Moriarity
- Mr. Ryan St. John
- Ms. Deborah Zeh

DEPARTMENT SUPERVISORS
Please call 439-4921, ext. 22048
- Art: Ms. Melanie Painter
- English: Mr. Andrew Baker
- Health & Physical Education, Family & Consumer Sciences: Mr. Frederick Powers
- Math & Computer Science: Mr. William Clairmont
- Music: Mr. David Norman
- Science & Technology: Mrs. Jennifer Gonyea
- Social Studies & Business: Mr. Nick Petraccione
- World Languages: Ms. Marisa Bel

LAB SCHOOL
Mr. David Lendrum, Coordinator, 439-4921

January 2017

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,

Mike Klugman
Interim 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.
• If you want to add or delete a course after course selection, please bring a note from your parents to your counselor.

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. To sign up for the AP exam, students must pay the required fee set by the College Board by November 17. Checks should be made payable to the Bethlehem Central School District, and can be turned in to the main office.

- **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 2017-2018, 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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>World Languages</td>
<td>3</td>
</tr>
<tr>
<td>Art/Music/Tech</td>
<td>1</td>
</tr>
<tr>
<td>Health</td>
<td>0.5</td>
</tr>
<tr>
<td>Phys. Ed</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>World Languages</td>
<td>1 (a)</td>
</tr>
<tr>
<td>Art/Music/Tech</td>
<td>1</td>
</tr>
<tr>
<td>Health</td>
<td>0.5</td>
</tr>
<tr>
<td>Phys. Ed</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>3.5</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
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</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

(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 Tues, January 10, 2017.

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 Services

Students may receive related services (speech therapy, occupational therapy, physical therapy, adapted physical education, and/or counseling) from 1-5 times per week. 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.

Learning Center

Learning Center (also called 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.
- **Reading & Language** — Students have a significant reading disability. For students with word decoding and encoding deficits, a multi-sensory phonemic reading approach is used. Other students require support in reading comprehension, language development, and writing. Speech language therapy is provided for language and vocabulary development.
- **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.
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. Some art courses require students to bring in materials.

**Studio in Art**

Code: 200122 | Grade: 9-12 | Credit: 1 | Pre-Req: None.

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. Students are given a basic supply list for this course.

**Studio in Media Arts**

Code: 200125 | Grade: 9-12 | Credit: 1 | Pre-Req: None.

The content of this course is organized to provide students with the foundations of art, as in Studio in Art, however this course will have a strong focus on design rather than fine arts. Students are engaged in a wide variety of mediums including drawing, painting, photography, film, digital photography, printmaking, and graphic design. The Elements and Principles of design are learned and applied in this course. The students enrolled in this course will have the opportunity to experience a foundation in all aspects of Media Arts, which will allow them to satisfy the Regents mandate in the arts.

**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 the student’s 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. Students will also be exposed to art history relative to the class assignments. Students will research and digitally present their research to the class on an influential artist/movement. This course will create a strong foundation for all other art courses and Advanced Studio Art.

**Advanced Studio Art**

Code: 200106 | Grade: 11-12 | Credit: 1 | Pre-Req: Drawing and Painting.

Students in this course should expect to further develop their observational skills, but 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, experience 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 senior level course and careers in the Arts.
Senior Portfolio Class
Code: 200121 | Grade: 12 | Credit: 1 | Pre-Req: Studio Art, and at least 2 art credits.
This is a full year class for students interested in creating strong portfolio pieces based on their chosen medium and areas of visual interest. Students must be proficient in the medium they choose, and have the initiative to take it to a higher level with the teacher as mentor. Areas of concentration include drawing, painting, graphic design, sculpture, printmaking, fashion, photography and film. Students will choose a major and minor each semester, and work to produce the highest quality pieces for an outstanding portfolio. Portfolio prep and presentation will be covered to prepare students for college and careers in the Arts.

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 the practical experience of art. Students are required to submit portfolios for evaluation at the end of the school year. There is not a written examination. 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 in 3-D design. (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. The fee charged by the College Board must be paid by November 17. 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, which is one of the most exciting and experimental areas within the textile and fiber art world. 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, mixed media sculpture, woven objects, digital printmaking and much more. 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
Have fun experimenting and combining 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 much more. Field trips to local galleries will enhance the overall experience of this innovative course.

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, and websites. Digital Media Arts is intended for high school level students to gain an understanding of digital print and online media. Students will design and create original works using a variety of software programs in order to develop digital visual communication skills. 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.

3-D Media Design
Code: 200128 | Grade: 10-12 | Credit: 1 | Pre-Req: Mixed Media Design Suggested
In 3-D Mixed Media Design, students will explore the creative process. Students will work through idea generation, how to develop ideas, sketching designs, learn what focus is and how to do it, and connect to real life experiences researching how artists learn what they need to create their designs. Students will make their ideas come to completion following specific steps in their sketchbooks and evaluating how the steps are working as they go. Students will use ordinary materials to create creative personal 3-D sculptures. This is a perfect course to take with Mixed Media Design.

The Ad Agency: Advanced Advertising Design
Code: 200123 | Grade: 11-12 | 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, thus 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. Students are expected to have flash drives to store their work.

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. Highlights include stop-action animation, writing for film using treatments and storyboards, music videos, commercials, and the creation of digital films.
of short films. As a course requirement, each student will be required to have a flash drive of at least 8GB to store their work.

**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.

**Photography**

Code: 200119 | Grade: 10-12 | Credit: 1 | Pre-Req: Studio in Art, Media Arts or Fine Arts Credit.

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. iPods and Mac 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 and are responsible for purchasing their own film, photographic paper and supplies. If they wish, students may also earn college credit through an agreement with Sage College of Albany. (Small summer assignment required.)

**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 scriptwriting, 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.

**Advanced Photography**

Code: 200105 | Grade: 11-12 | Credit: 1

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 of iPods and a state of the art Mac computer lab for a blend of film, digital, and alternative processes in photography. Guest speakers are brought in to explore career fields in photography. All photography students are expected to have their own 35-mm SLR camera with a manual operational mode and are responsible for purchasing their own film, photographic paper and supplies. If they wish, students may also earn college credit through an agreement with Sage College of Albany. (Small summer assignment required.)

**Digital Photography**

Code: 200111 | Grade: 12 | Credit: 1/2 | Pre-Req: Studio in Art or Media Arts suggested.

This course will introduce students to the world of digital photography and the latest trends in iPhoneography. Using their own 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. Students will learn to use a smart phone or iPod touch to create photographic images through creative discovery and visual experimentation. 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. Students must have their own digital camera.

**Ceramics**

Code: 200110 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Studio in Art or Media Arts suggested. 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. 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. 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 | Pre-Req: Studio in Art or Media Arts suggested. 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.
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

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

Business Law
Code: 201101 | Grade: 11-12 | Credit: 1
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.

The Business of Music
Code: 201102 | Grade: 9-12 | Credit: 1/2
This half-year course is designed to teach students about one of the fastest growing career fields of today, the music industry. This is an excellent opportunity to explore the effects of the global music industry on our lives and economy. Students will discuss and research careers, past and present trends, economics and legal aspects of the industry. Field trips, guest speakers, and internships/career research are integral components of this course. This course provides opportunities for career exploration and/or college credit through either SCCC or SUNY Cobleskill.

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

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 Exploration Internship Program (CEIP) | Page 17

Career & Financial Management I
Code: 201113S | Grade: 9-12 | Credit: 1/2
Career and Financial Management I is an introductory business course. It is designed to promote financial literacy among young adults. 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 maintaining a checkbook, understanding credit, insurance, investing, and consumerism.

Career & Financial Management II
Code: 201114S | Grade 9-12 | Credit: 1/2
Career and Financial Management II is an extension of CFMI with a focus on career exploration. Students will explore a variety of careers and learn the life skills and competencies for success in the workplace. Students will explore all aspects associated with Career readiness, Business Models, Time Management and Entrepreneurship.

Computer Concepts & Applications I
Code: 201105 | Grade: 10-12 | Credit: 1/2
This course provides a practical background in microcomputer basics. Students will receive hands-on experience while learning Microsoft Word, PowerPoint, Excel, and Access. Students will need to be able to independently complete exercises and projects to practice the skills taught. Students may earn college credit through agreement with HVCC.

Computer Concepts & Applications II
Code: 201106 | Grade: 10-12 | Credit: 1/2
Pre-Requisite: Computer Concepts & Applications I. This course introduces advanced microcomputer concepts and applications. 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.

Entrepreneurship
Code: 201107 | Grade: 10-12 | Credit: 1/2
Have you always wanted to run your own business? This course will provide students with the tools needed to become a successful entrepreneur. Students will learn what entrepreneurship is and analyze successful entrepreneurs. They will study business planning, market analysis, types of business ownership, the legal environment, and how to manage the finances of their business. Students will also learn how to manage business processes to ensure the survival and growth of their business.
**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.

**International Business**  
Code: 201110 | Grade: 10-12 | Credit: 1/2  
International Business is a one-semester business elective that is growing in relevance due to the increase of global competition. The course will focus on the economic, legal, political, governmental, financial and cultural issues related to international business environment and the multidisciplinary development of strategies to address it. The course will also address theories that can be applied to doing business with any country outside the US and the specific culture, etiquette, protocol, and behavior styles of countries around the world.

**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 Retailing Simulation software will be used to assist students in running a business and making marketing decisions. Students will also manage a school-related marketing campaign. Students may 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**  
Code: 201112 | Grade: 10-12 | Credit: 1/2  
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.
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).

**Gourmet Foods**  
Code: 211107 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Culinary Arts I strongly suggested.  
You’ve seen ’em on TV ....now let the creative chef in you come alive! This course is for students interested in experimenting with more specialized culinary techniques. Food preparation includes such advanced techniques as garnishing, sauces, soufflés, mousses and fondues, to mention a few. A fee may be charged to cover the cost of foods over and above the staples used. It is recommended Culinary Arts I be completed prior to taking this course. Students with a known allergy must have documented information on file with the building nurse.

**Independent Living**  
Code: 211108 | Grade: 10-12 | Credit: 1/2  
Practice living the single life! Live on your own...”Get a job!”. Rent an apartment, buy a car, shop for insurance, food and clothing – on a budget! Learn personal legalities for protection and liability. Cash in on some fun field trips to local businesses and benefit from in-class speakers’ presentations. Have cash in your pocket the day before your next pay check. Put your goals in action now!

**Social Psychology**  
Code: 211110 | Grade: 10-12 | Credit: 1/2  
Want to understand yourself and others better? Why do they do the things they do? Why do the things you do? Learn ways to improve all your relationships. This course is designed to give you an opportunity to explore the issues you are currently facing and to look at the many choices and challenges open to you as you deal with these issues. You will learn about yourself, how to cope with the problems and stresses you face, as well as how to deal with those around you -- family, friends, children and adults. This is done through class discussion, group activities and observations of people, young and old.

**International, Regional & Cultural Foods**  
Code: 211109 | Grade: 10-12 | Credit: 1/2 | Pre-Req: Culinary Arts I strongly suggested.  
Travel in your future? Will your study abroad or future career place you in unknown territory? You will learn how foods are prepared in all regions of the United States including New England, the Midwest, the South, and the Pacific Northwest. The second portion of the course will include a review of selected international countries and again preparing foods representing these lands while learning about what influences their food choices. A fee may be charged to cover the cost of foods over and above the staples used. Students with known allergies MUST have documented information on file with the building nurse.
Technology Education

Project Lead the Way Sequence:
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 a five-course 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 and CAD software are 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 be used to complete a five-unit sequence of college credit. A lab fee may 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. CNC is a college level course taught as one of the five sequence courses in the “Project Lead the Way” pre-engineering curriculum. 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 course is a keystone class in the pre-engineering sequence. A lab fee may 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
Digital Electronics is a college level course taught as one of the five sequence courses in the “Project Lead the Way” pre-engineering curriculum. Upon successful completion of the course, passing the RIT examination, and paying a
minimal college fee, the student may elect to receive college credit for the course. 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. A lab fee may be charged to cover the cost of materials for project work. NOTE: Simultaneous enrollment in Electronics and DE is prohibited.

**Electronics**  
Code: 204104 | Grade: 10-12 | Credit: 1  
Students will develop the basic knowledge and skills required to work with electrical circuits and electrical equipment. Students will work with series and parallel circuits, resistors, capacitors, transformers, transistors and integrated circuits and learn the skills of soldering, breadboarding, wiring, circuit layout and manufacturing print circuit boards. Students will work individually and as a team to experiment, construct and problem solve various types of circuits using transistors and integrated circuits. All students will construct and take home projects relating to the course objectives such as a power supply, amplifier, transistor and integrated circuits. A lab fee may be charged to cover the cost of materials for project work. NOTE: Simultaneous enrollment in Electronics and DE is prohibited.

**Engineering Design and Development**  
Code: 204105 | Grade: 11-12 | Credit: 1 | Pre-Req: 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 may 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 CAD/mechanical drawing techniques. Students will create color 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.

**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 taught as one of the five
sequence courses 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 may be charged to cover the cost of materials for project work.

**Power Mechanics 1**  
Code: 204107 | Grade: 9-12 | Credit: 1/2  
This course is designed to provide students with an overview of the nature of energy conversion related to internal combustion engines and the small engines industry. Students will learn the basic technical skills and knowledge necessary to become proficient in servicing and/or repairing internal and external combustion engines. Students will learn about gasoline, diesel, steam and solid fuel engines including small engine overhaul, troubleshooting, hydraulics, pneumatics, fluid power action, and explore careers available in each area. A lab fee may be charged to cover the cost of materials for project work.

**Power Mechanics 2**  
Code: 204108 | Grade: 9-12 | Credit: 1/2  
This course is designed to continue the study of energy conversion with a concentration in the areas of automotives, alternate energy, and introduction to automobile engines including the systems of ignition, lubrication, cooling, drive train, emission braking and suspension, troubleshooting design, computers and electronics. Students will also study various transportation systems used on land, sea and air and will explore careers available in each area. A lab fee may be charged to cover the cost of materials for project work.

**Network Programming 1**  
Code: 204113 | Grade: 10-12 | Credit: 1  
This Cisco Academy course 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.

**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.

**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 fee may be charged to cover the cost of materials over and above the basics provided.

**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 fee may be charged to cover the cost of materials over and above the basics provided.
Autobody Collision Repair and Autobody 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.

Clean, Green & Advanced Technology is an exciting course that prepares high school seniors for careers that can literally make a world of difference. They learn about high-wage, high-skill, high-demand science and environmentally friendly technologies that will prepare them for college and beyond. They solve problems and build...
the skills necessary to shape the future in solar energy, Smart Home and Smart Grid energy-saving solutions, wind technology and advanced, automated production. Students take part in interesting work-based learning activities and field trips to businesses and research facilities and earn three college credits in electrical circuits through a college-in-the- high-school course that aligns with a number of related technical degree programs in our region.

**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 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.

**Floral Design** teaches students about the creative and business aspects of the floral design industry. Students run an on-campus flower shop, design arrangements for events on and off campus, and perform community service. They also learn through trips to flower shows and competitions.

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

**Gaming, MultiMedia & Web Design** is a one-year program for students interested in the creative worlds of video game design, computer graphics, programming and Web design. They learn how to create video games, digital art and computer graphics, animations, comics and websites. Students work on a variety of projects and apply their knowledge by serving actual customers. They are prepared to take Adobe Certified Associate exams in Photoshop and Flash and may earn college credit. Upon completion of the program, students may continue their Career & Tech studies in Internet Application Design or Computer Network Technician/Information Technology, or at college.

**Global Fashion Studies** prepares students for careers and higher education in fashion, apparel and accessories, business and marketing. Year one focuses on fashion merchandising, and year two focuses on marketing and retailing. Topics of study include garment theory, textiles, manufacturing, sales, promotion, and career and college opportunities. Students learn through specialized software, hands-on projects, lectures and guest speakers, videos, field trips, work-based learning and community service. They work together to design, research, produce and sell their own product and create professional portfolios. Upon completion, students may enter the workforce or advance their education at colleges such as the Laboratory Institute of Merchandising, Fashion Institute of Technology in Manhattan 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.

**International Virtual Business** or other programs. Seniors completing Design Technology are prepared to continue their education at 2- or 4-year colleges or pursue entry level positions in design and manufacturing, information technology, and architecture- or construction-related professions.

**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.

**Nurse Assistant** provides theory and skill training related to patient care in hospitals, nursing homes, clinics, medical offices and home care, including supervised clinical experiences in local health facilities. This one-year program provides training in total patient care and prepares students for the New York State Nurse Assistant examination. Students can earn college credit through an agreement with SCCC.

**Power Sports Equipment Technician** teaches students, in this one-year program, how to maintain, diagnose and repair vehicles and power sports equipment including four-wheelers, snowmobiles, marine/ personal watercraft, outboard motors, and motorcycles, as well as lawn mowers and tractors. Through hands-on instruction, they learn about 2- and 4-stroke theory, engines, ignition and fuel systems, as well as about safety, equipment and tools. Project-based learning and a fully equipped lab build students’ professional and interpersonal problem-solving skills. Upon completion, they may advance their education at college or at specialized trade schools, or enter the workforce.

**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.

**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.
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 10

Code: 202108 | Grade: 10 | Credit: 1 | Pre-Req: English 9E, 9.

A variety of literary sources is used to bring students to an understanding of the structure of literary forms, style, and themes. The literary program also aims to develop analysis and critical study of literature. Listening and speaking skills are sharpened through individual reports, group reports and dramatization of plays. The writing program will focus on creative and expository writing, including practice of Regents tasks.

English 9 Honors

Code: 202113 | Grade: 9 | Credit: 1 | Pre-Req: English 8 and summer assignment.

The English Honors course is designed to provide students possessing high interest and ability in English with a course sequence that challenges their intellectual capabilities. Students should have demonstrated superior
performance in using effective reading, discussion, language, critical thinking and problem-solving skills. The course will provide an intensive writing program integrated with a genre approach to 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.

**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**
Code: 202103 | Grade: 12 | Credit: 1 | Pre-Req: English 11 and recommendation of an 11th-grade English teacher.
This Advanced Placement course requires the study and practice of writing. Students 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. The fee charged by the College Entrance Examination Board must be paid by November 17 or the student will be placed in another English course. There is a required summer assignment.

**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 read one novel and several short works.

**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 presentations, creative projects and a critical evaluation of a contemporary self-selected novel.

**Creative Writing**
Code: 202106 | Grade: 11-12 | Credit: 1/2
This course is designed to give students an introduction to the 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 & 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.

Sci Fi/ Fantasy
Code: 202128 | Grade: 11-12 | Credit: 1/2
This course explores 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.

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.

Survey of Major Dramatic Comedies
Code: 202131 | Grade: 11-12 | Credit: 1/2
This course explores the use of comedy in dramatic literature, from the origins of comedy in Greek theatre through its development through the centuries, and finally to modern comedic dramas of the Theatre of the Absurd. Students will be exposed to the art of acting through the study of the Alexander Technique, the Linklater Voice method and improvisation for the role 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.

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.
performing of comedic scenes, a major requirement of the course. Students will also study modern literary criticism, most notably Psychoanalytical, Feminist, New Historical, Archetypal and Antithetical criticisms, as it applies to comedy. The major playwrights studied are Aristophanes, Shakespeare, Rostand and Stoppard.

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: 11-12 | Credit: 1/2
Theatre Arts is a gym class with words. The course focuses on the practical aspects of theatre, working on the voice, mind, and body connection. Students learn how to relax when speaking in front of an audience, how to articulate, and how to connect the performer to the words. Students learn the Alexander Technique, a relaxation exercise, the Linklater Voice Method, a process to strengthen and maintain the voice and short-form improvisation (such as the exercises found on “Whose Line Is It Anyway?”), as well as scene study. Students keep an observation journal and write a play review each quarter, a one-act play, and performance preparation essays. The final exam is the performance of a memorized scene, an essay in preparation for the scene and a five-minute improvisation set. Students are graded on an individual basis, so it is suitable for those who have never performed before but want practical experience in speaking and learning how to relax, as well as for those who have experience and training and wish to advance their work.
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. Students in a Spring sport must have been a member in good standing as a junior in that varsity sport. (i.e. played varsity baseball as a junior and will be playing as a senior)
5. Application submission no later than the last day of classes.

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 Math 9**
Code: 205117 | Grade: 9 | Credit: 1
This course is designed for students who have experienced difficulty with math. It is the first year of a two-year sequence, preparing students for the Regents Examination in Algebra I (Common Core) at the end of their second year. This course satisfies one year of the graduation requirement of three years of math.

**EXCEL Global History 10**
Code: 208110 | Grade: 10 | Credit: 1 | Pre-Req: Social Studies 9.
Students must also enroll in corresponding EXCEL English. 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.

**EXCEL Math 10**
Code: 205116 | Grade: 10 | Credit: 1
This course is designed for students who have experienced difficulty with math. It finishes the Algebra material begun in EXCEL MATH 9, provides a second year of math credit and prepares students to take the required 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. 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 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 Mathematics LEVEL 5
Code: 205126 | Pre-req:
Successful completion of Level 4 Math.
This course is designed to be an introductory class in Calculus. It begins with the study of sequences, series and limits, and continues through an exploration of differentiation and integration concepts and techniques. The course allows students to develop an initial understanding of Calculus concepts, gain confidence and experience with fundamental techniques, and apply these techniques to solving application problems.

Lab School Science
The Lab School offers an integrated curriculum in the sciences that meets New York State regulations and Regents requirements.

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. 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. 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.

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. 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.

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, Home Safety, Air Quality, Water Quality, Nuclear Chemistry, Sources of Energy, and Food Chemistry.

**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. Many practical applications will be provided.

**Lab School Social Studies**

**Lab School Global History 10**
Code: 208117 | 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.

**Lab School Global History 10**

**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

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.
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

Science, Technology, Engineering, and Math Honors is an elective for Lab School students from grades 10-12 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).
**Algebra I A**  
Code: 205108 | 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.

**EXCEL Math 9**  
Code: 205117  
See Interdisciplinary Studies, Page 39.

**Algebra I B**  
Code: 205109 | Grade: 10-11 | Credit: 1 | Pre-Req: Successful completion of Applied Algebra.  
This course is designed for students who have experienced difficulty with math but wish to continue their study of traditional mathematics. 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 (Common Core) as their final test.

**EXCEL Math 10**  
Code: 205116  
See Interdisciplinary Studies, Page 39.

**Algebra I**  
Code: 205121 | Grade: 9-12 | Credit: 1  
This course is designed for students of average 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 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.

**Applied Geometry**  
Code: 205110 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of Applied Algebra 2 with Trigonometry and Regents Exam in Algebra I (Common Core).  
This course is designed for students who have experienced difficulty with math and are interested in math. 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.

**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 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 (Common Core) is taken at the end of the course.

**Algebra II A**
Code: 205102 | Grade: 11 | Credit: 1 | Pre-Req: Geometry or Enriched Geometry and Geometry Regents Exam.
This course is designed for students with average ability who would benefit from a slower-paced presentation. It is the first year of a two-year sequence, preparing students for the Regents Examination in Algebra II (Common Core) at the end of their second year.

**Algebra II B**
Code: 205133 | Grade: 12 | Credit: 1 | Pre-Req: Algebra 2 and Teacher Recommendation.
This course is designed for students with average ability who would benefit from a slower-paced presentation. It is the second year of a two-year sequence and prepares students to take the Regents Examination in Algebra II (Common Core) as their final test.

**Algebra II AB**
Code: 205114 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of Honors Geometry, Enriched Geometry or Teacher Recommendation.
This course is designed for students of higher than average ability who have had success and are interested in math. It teaches and enriches all topics associated with algebraic operations, variables and expressions, equations and inequalities, patterns, functions, and relations, coordinated geometry, trigonometric functions, measurement, and statistics and probability as delineated in the *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.
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: Enriched Algebra 2 and Trigonometry.
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: Enriched Algebra 2 and Trigonometry; or Honors Algebra and Trigonometry.
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: Honors Algebra 2 and Trigonometry.
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 at a more rapid pace and then 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.

Calculus
Code: 205129 | Grade: 12 | Pre-Req: 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 Statistics
Code: 205106 | Grade: 11-12 | Credit: 1 | Pre-Req: Algebra 2 & Trigonometry.
This is the third advanced placement course in mathematics. 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. The fee charged by the College Board must be paid by November 17.

Advanced Placement Calculus AB
Code: 205104 | Grade: 11-12 | Credit: 1 | Pre-Req: Enriched Pre-Calculus.
This is the first advanced placement course in mathematics. Topics include differential calculus of algebraic functions, integral calculus of algebraic functions, geometric and physical applications of integration and the calculus of elementary transcendental functions. Success in the course requires advanced mathematics skills. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 17.

Advanced Placement Calculus BC
Code: 205105 | Grade: 11-12 | Credit: 1 | Pre-Req: Honors Pre-Calculus.
This is the second advanced placement course in mathematics. Topics include differentiation, applications of the derivatives, the definite integral, transcendental functions, techniques of integration, applications of the definite integral, geometry in the plane, sequences and series and elementary differential equations. Success in the course requires advanced mathematics skills and extra preparation. Students will not be admitted without Honors Pre-Calculus credit. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 17.

Calculus 3
Code: 205113 | Grade: 11-12 | Credit: 1/2 | Pre-Req: 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: 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.

**Applied Real World Mathematics**
Code: 205111 | Grade: 11-12 | Credit: 1 | Pre-Req: Successful Completion of Applied Algebra 2 with Trigonometry.
This course is designed for students who have experienced difficulty with math and do not wish to continue their study of traditional mathematics. It provides a third year of math credit and shows students how previously studied topics apply to the real world.

**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: Enriched Algebra 2 and Trigonometry or Honors Algebra 2 and Trigonometry.
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: 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. The fee charged by the College Board must be paid by November 17.

**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.

**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 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.

**High School 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.

**High School 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.

**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.

**Music Theory**

Code: 206110 | Grade: 9-12 | Credit: 1 | Pre-Req: Music reading skills required.

Through listening, reading, performing and writing music, the student will develop deeper understanding and skill in the technical elements of music. The elements studied are pitch, rhythm, the keyboard, harmony, texture, color and form. Emphasis will also include writing melodies and harmonization. The “Sound & Symbol” in music content will range from triadic progression to the more complex contemporary harmonies.

**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 smaller, well-balanced instrumental ensemble, which will perform exemplary literature from the repertoire for Symphonic Band. All Symphonic Band students are required to participate in the weekly instrumental class lessons to continue the basic instruction to develop instrumental proficiency.

**Wind Ensemble**

Code: 206112 | Grade: 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 V-VI as a soloist. Every effort is made to maintain a smaller, well-balanced instrumental ensemble, which will perform exemplary literature from the repertoire for Wind Ensemble and Symphonic Band. All Wind Ensemble students are required to participate in the weekly instrumental class lessons to continue the basic instruction to develop instrumental proficiency.
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. The fee charged by the College Board must be paid to the school by November 17 or the student will be placed in another science 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/Trigonometry. 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/Trigonometry 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
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. The fee charged by the College Board must be paid by November 17. Class is scheduled for six periods per week with the sixth period providing for additional class time as well as for laboratory experience.

Advanced Placement Physics
Code: 207106 | Grade: 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 Examinations. Additional student time beyond the assigned times, will be required. 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. The fee charged by the College Board must be paid to the school by November 17 or the student will be placed in another science course. It is highly recommended that the student have completed Algebra 2/Trigonometry 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 survey the solar system, stars, galaxies, and the universe. Students will learn about the various instruments used to study the universe and problems faced by astronomers.

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.

**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 on laboratory problems 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), or Chemistry. Students must have successfully completed algebra. It is strongly recommended that students be in Algebra-2/Trigonometry and have a 75+ course average in Algebra, Geometry, Earth Science and Biology or an 85+ average in Chemistry.

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.

**Digital Electronics**

Code: 204103 | Grade: 10-12 | Credit: 1 | Pre-Req: See course description.

This is a Project Lead the Way® course (see Career & Technical Education – Technology Education). In the class students will design, prototype and construct working digital circuits. Skills such as wiring, soldering and breadboarding will be taught and practiced. Theories on electricity and on how solid state digital circuits work will be taught throughout the course. Students will use computers and other electronic devices to perform design, electronic testing and simulation work in the following areas: basic electronics, diodes and transistors, TTL vs. CMOS, digital logic circuits, Boolean algebra, Flip-flops and resistors, sequential logic circuits, combination logic circuits, digital design and digital computer. It is recommended that students have completed Electronics with at least an 80 percent average. If enrollment is sufficient, Digital Electronics will be taught in cooperation with the Career & Technical Education department as an interdisciplinary course demonstrating to the student how science and technology work together.

**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. Students are required to successfully complete the laboratory activities of the course and must submit acceptable written reports. 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 10**

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

**EXCEL Science 9**

Code: 207115 | Credit: 1
See Interdisciplinary Studies, Page 39.

**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**

*Previously known as “ChemX” and “Advanced 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/Trigonometry, 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 30 hours 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 and the College Board SAT II Achievement Test. 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/Trigonometry.

**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 Earth Science**
Code: 207125 | Credit: 1
See Interdisciplinary Studies, Page 40.

**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. Students should not take this course if in a math class above 11-2.

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.

**Science Research Seminar**
Code: 207126 / 207127 / 207128 | Grade: 10-12 | Credit: 1 per year | Pre-Req: Interest, teacher recommendation or application process.

**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 pre-requisites, the student is welcome to discuss the matter with the district’s social studies supervisor.

**Advanced Placement American History**
Code: 208103 | Grade: 11-12 | Credit: 1 | Pre-Req: Global Studies 10.
This Advanced Placement course is an intensive, in-depth study of American history from 1607 to the present. It places heavy emphasis on historiography that is on the methods and interpretations that various historians have employed in their unlocking of the American past. The course forces a student to think in historical rather than contemporary terms. It requires both extensive reading and an ability to reason in abstract terms. The instruction is considered to be the equivalent of undergraduate college level. 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. The fee charged by the College Entrance Examination Board must be paid by November 17 or the student will be placed in another social studies course. 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 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. This is an interdisciplinary offering and students may elect either art or social studies credit. This course will not take the place of any of the required social studies courses. The Advanced Placement Examination is required of all students taking this course. The fee charged by the College Board must be paid by November 17. This course includes an online component, visiting artists and museum experiences. AP Art History requires a summer assignment. Offered every other year. This course will be offered in 2016-2017.

**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. The summer assignment, mid-term exam, AP Macroeconomics and AP Microeconomics examinations, and final project are required of all students taking this course. The fees charged by the College Entrance Examination Board must be paid by November 17 or the student will be removed from the course. After successful completion of the course, a student will earn Economics and Participation in Government credit toward graduation. Additionally, all students will complete 20 hours of community service, which is a graduation requirement.

**Advanced Placement 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. The fee charged by the College Entrance Examination Board must be paid by November 17 or the student will be removed from the course. A summer assignment is a requirement of this course. The Advanced Placement Examination is required of all students taking this course.

**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. The summer assignment, mid-term exam, AP Microeconomics examination and final project are required of all students taking this course. The fees charged by the College Entrance Examination Board must be paid by November 17 or the student will be removed from the course. After successful completion of the course, a student will earn Economics and Participation in Government credit toward graduation. Additionally, all students will complete 20 hours of community service, which is a graduation requirement.

**Advanced Placement Psychology**

Code: 208107 | Grade: 11-12 | Credit: 1
This year long course is intended to introduce students to the systematic and scientific study of behavior and mental processes and students will
increase their understanding of psychology, its methods, theory and research. AP Psychology is a survey course, so students will focus on bits of information from many different areas in Psychology. Primarily, the course will explore the psychological facts, principles and phenomena associated with each of the major subfields of psychology (consciousness, learning, personality, cognition, etc.). The objective of this course will be that each student take and pass the Advance Placement Exam for Psychology and all aspects of the course will reflect this fact. AP psychology will be taught at the college level and student study habits and participation should reflect this fact. All vocabulary, information and activities will be intended to prepare you for the AP exam. Students will be asked to complete many writing assignments and projects. Students should be prepared for work outside of class. Additionally, a summer assignment is a requirement of this course. The fee charged by the College Board must be paid by November 17.

**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. The fee charged by the College Board must be paid by November 17 or the student will be placed in another social studies course. Students will also take the Global History and Geography Regents (a requirement for graduation) in June. A summer assignment is a requirement of this course. The Advanced Placement Examination is required of all students taking this course.

**American Wars**

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

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

**Economics**

Code: 208109 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.
Designed to provide a framework for understanding the many complex economic issues of our time, this course will explore the theories and principles that underlie all economic structures from individual decision-making to the complexities of international economics. This course will provide a basic foundation in economics for all those planning on further education beyond high school.

**EXCEL Global History 9/10**

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

**Global History 9**

Code: 208113 | Grade: 9 | Credit: 1
Global History 9 is the first year of a two-year program, which
culminates in a Regents exam at the end of the second year. The exam is a graduation requirement for all students. Starting with a review of the skills of historical analysis the course examines the history of the world from 4000 BC to the present day. The program is structured around the New York State Learning Standards for Social Studies and is designed to integrate the central themes identified by the National Council for the Social Studies.

**Global History 10**
Code: 208112 | Grade: 10 | Credit: 1 | Pre-Req: Social Studies 9.
This course is the final segment of a two-year Global History curriculum. The course will culminate in a Regents exam. The exam is a graduation requirement for all students. Beyond the continuous development of social studies skills and historical analysis, the course will examine the history of the world from the late 18th century to the present day. The program is structured around the New York State Learning Standards for Social Studies and is designed to integrate the central themes identified by the National Council for the Social Studies.

**Great Issues in Philosophy**
Code: 208115 | Grade: 11-12 | Credit: 1/2
This course is designed to serve as a forum for the discussion of basic issues that have perplexed humans through the ages. What is the nature of humans? What is the ideal system of government? What are the ideal conditions for human existence? Do people have free will? Where do natural rights come from? How should the wealth of the world be divided? What is good and what is evil? Did God create humans, or did humans create God? These are just a few of the topics of discussion; the basis of which will be a series of writings by some of the world’s greatest thinkers, past and present. Also included in the course is an introduction to the study of philosophy and an emphasis on the skills of argument formation and analysis.

**A History of New York City**
Code: 208116 | Grade: 11-12 | 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.

**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.

**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.

**Psychology**
Code: 208125 | Grade: 11-12 | 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.

**Participation in Government**
Code: 208122 | Grade: 12 | Credit: 1/2 | Pre-Req: Social Studies 11.
This course is designed to provide students with the skills necessary to analyze public policy issues and to effectively participate as citizens. The course will emphasize the practical, rather than the theoretical approach to policy analysis. The specific issues examined will be determined by current events from local, state, national and global perspectives. All students will be required to do a participation project as an integral part of the course. Additionally, all students will complete a 20-hour service requirement.

**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 $330. Students who successfully complete the course will receive 3 semester credits from Syracuse University. Additionally, all students will complete 20 hours of community service.

**Sociology**

Code: 208128 | Grade: 11-12 | 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.

**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.

**Advanced Latin**
Code: 203102 | Grade: 11-12 | Credit: 1 | Pre-Req: Latin 2.

Students who have successfully completed Latin 2 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 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. The fee charged by the College Board must be paid by November 17.

**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. Students interested in continuing to Spanish 2 may need additional support and study.

**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 2 is encouraged.

**Spanish 2**

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

This course builds upon the foundation laid in Spanish 1 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.

**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. The fee charged by the College Board must be paid by November 17.

**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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